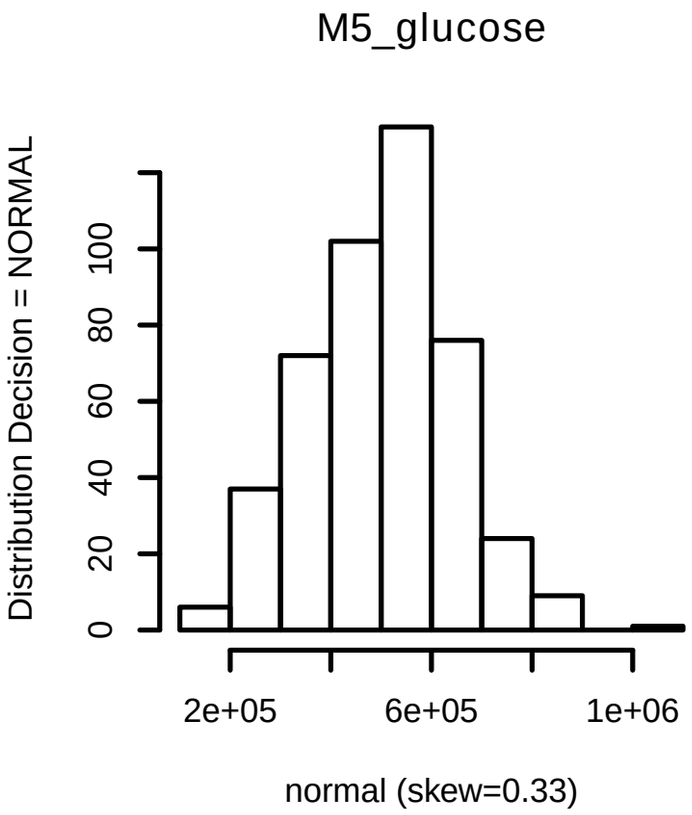
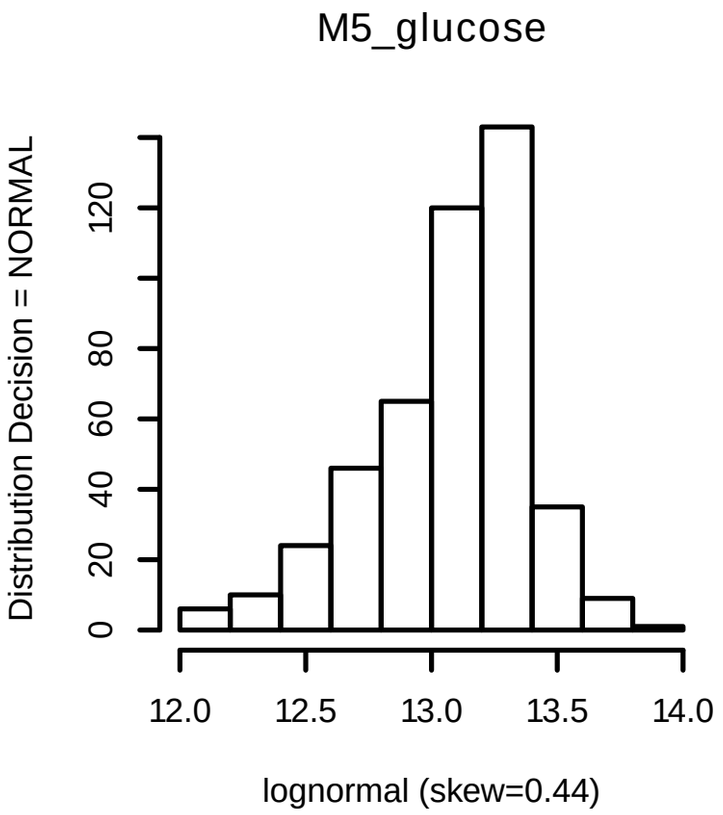
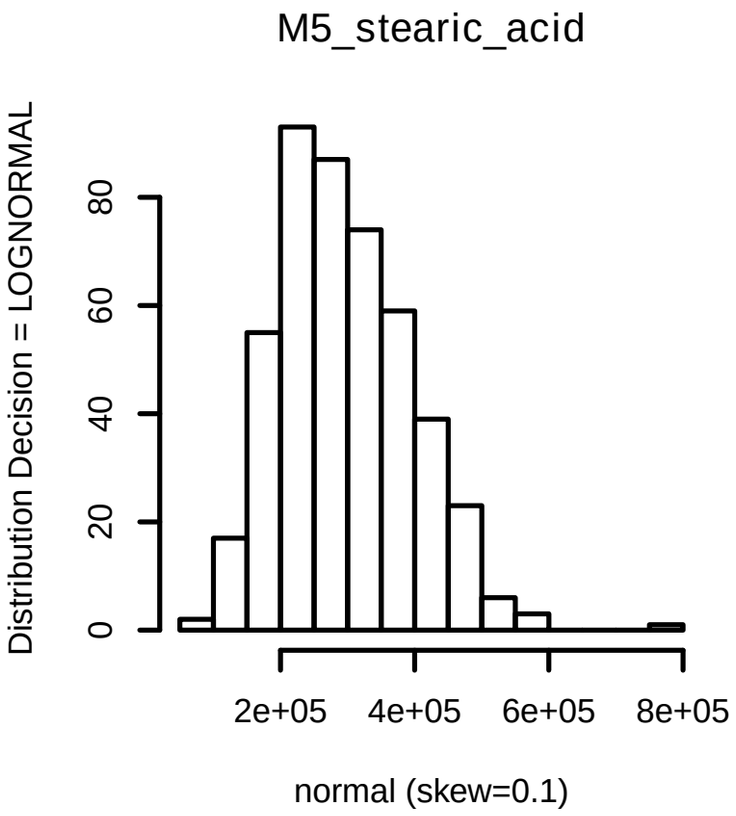
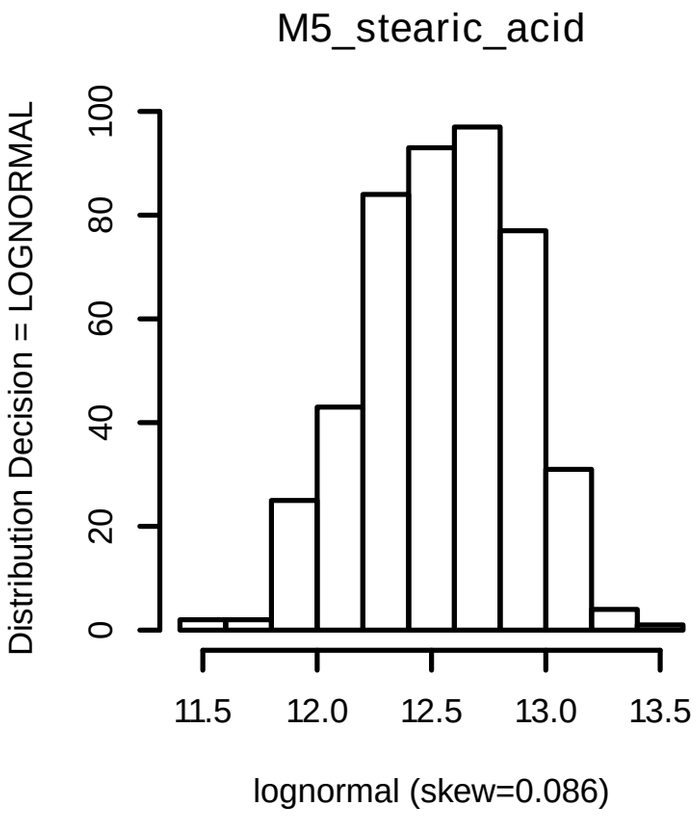
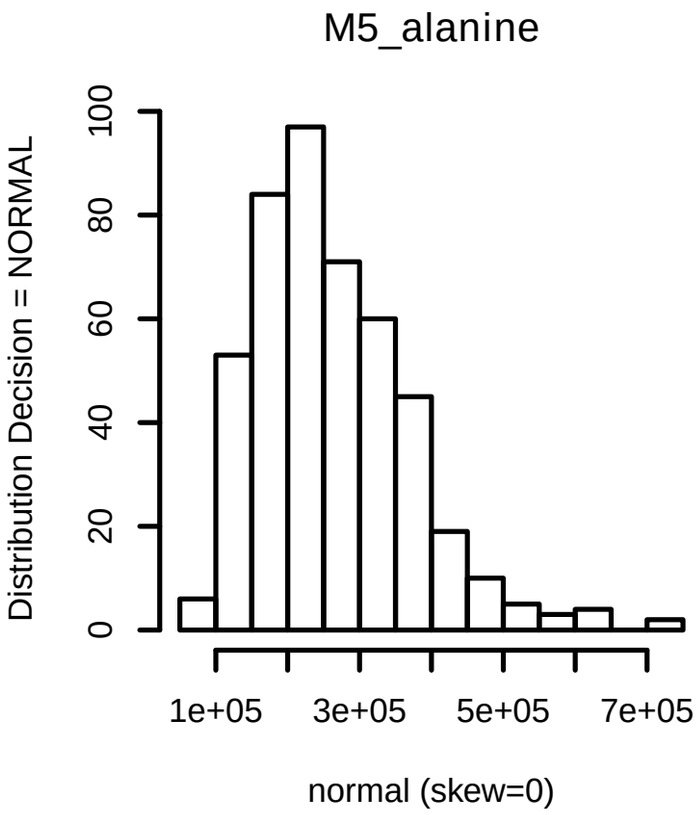
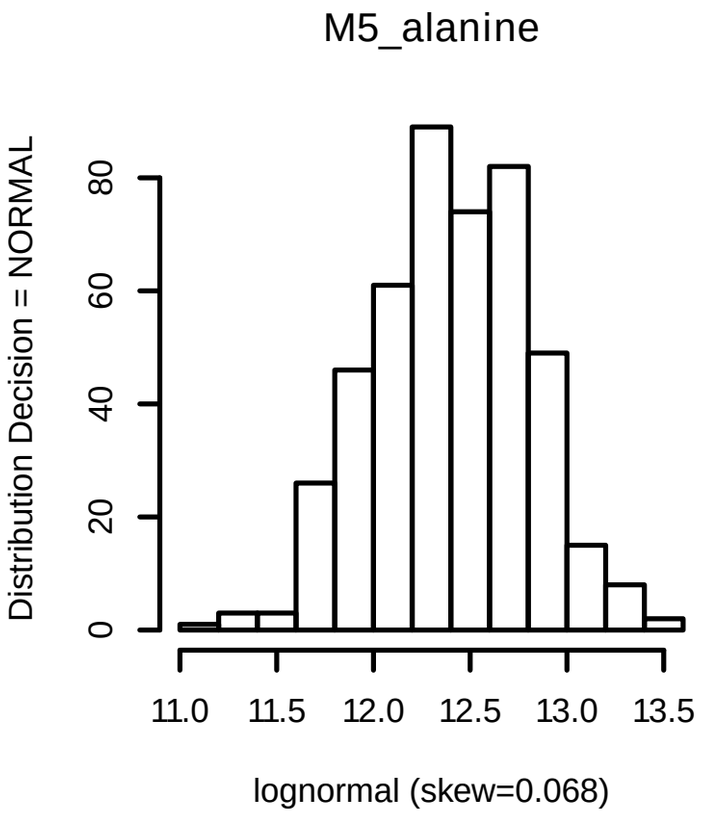

M5_glucose
Distribution Decision = NORMAL
0
20
40
60
80
100
2e+05
6e+05
1e+06
normal (skew=0.33)

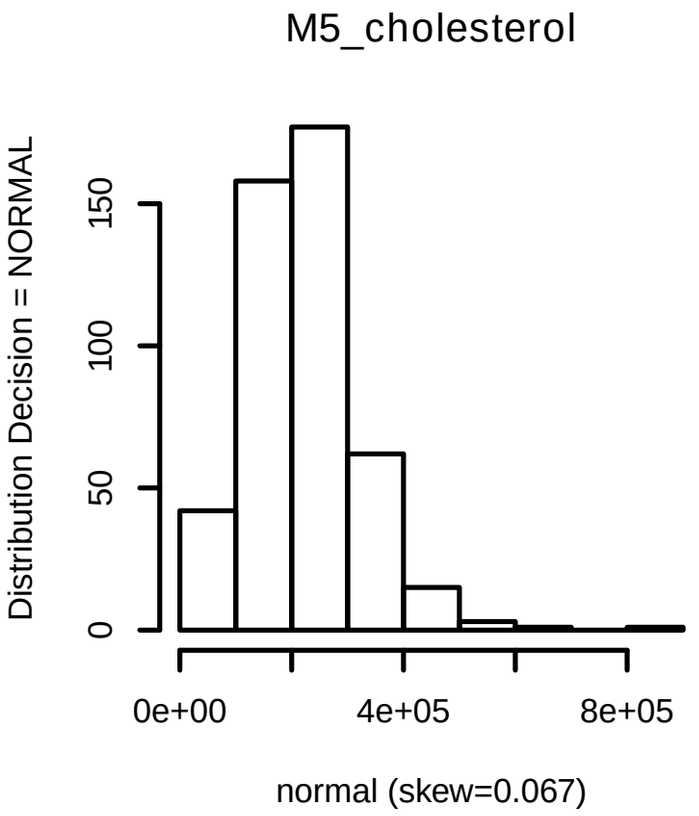

M5_glucose
Distribution Decision = NORMAL
0
20
40
60
80
120
12.0
12.5
13.0
13.5
14.0
lognormal (skew=0.44)

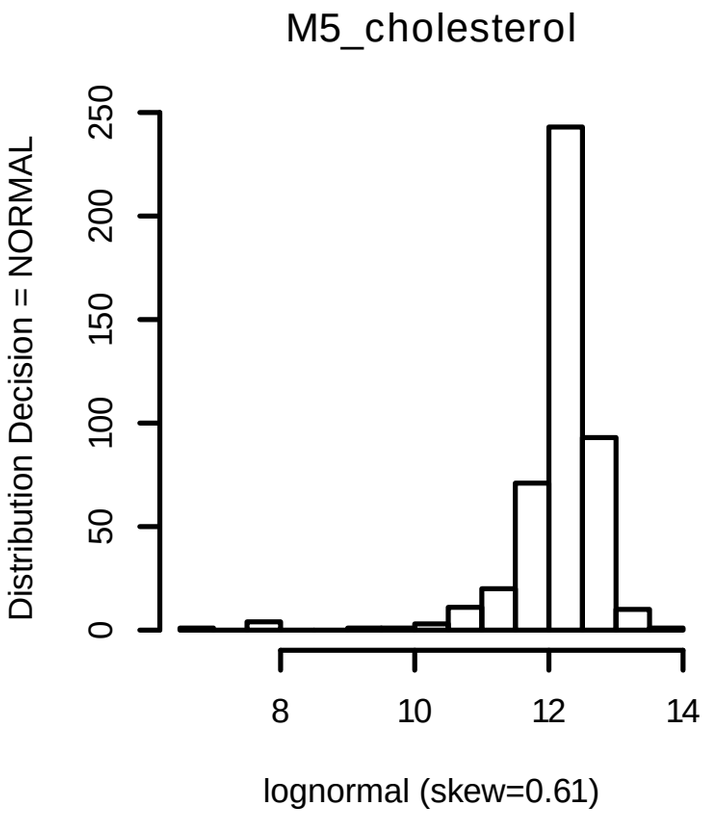

M5_stearic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
2e+05
4e+05
6e+05
8e+05
normal (skew=0.1)

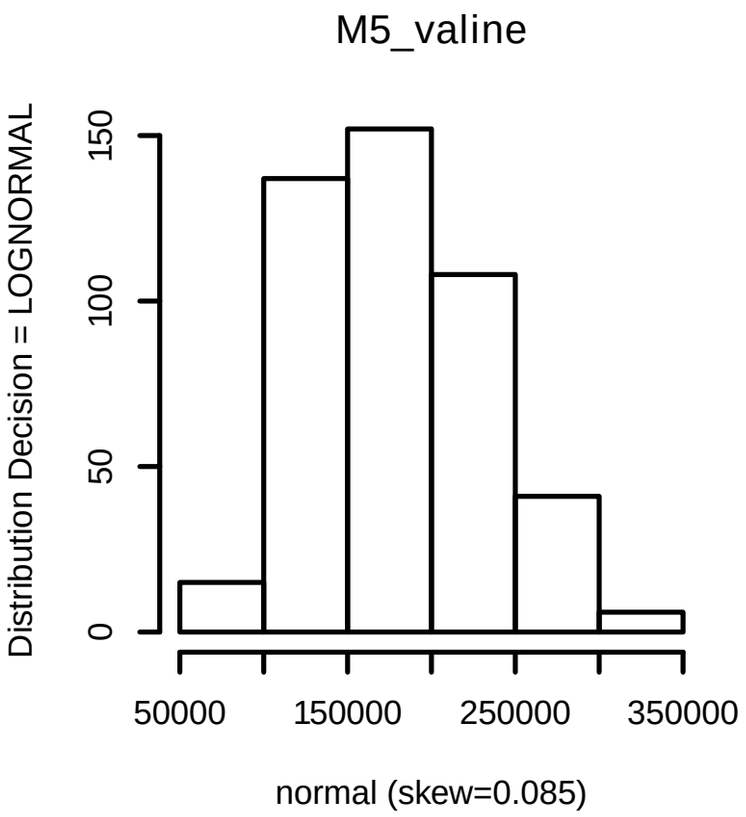

M5_stearic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
11.5
12.0
12.5
13.0
13.5
lognormal (skew=0.086)

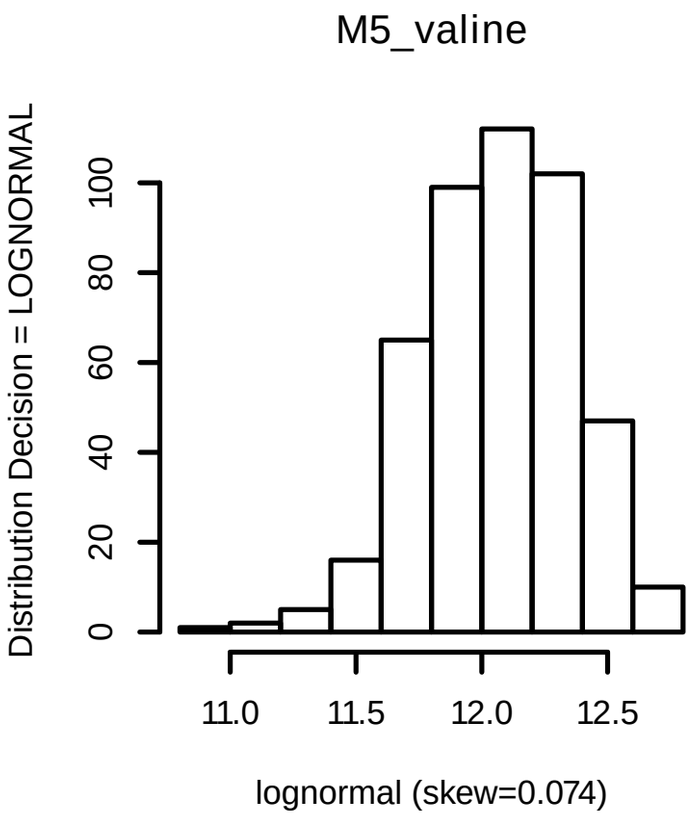

M5_alanine
Distribution Decision = NORMAL
0
20
40
60
80
100
1e+05
3e+05
5e+05
7e+05
normal (skew=0)

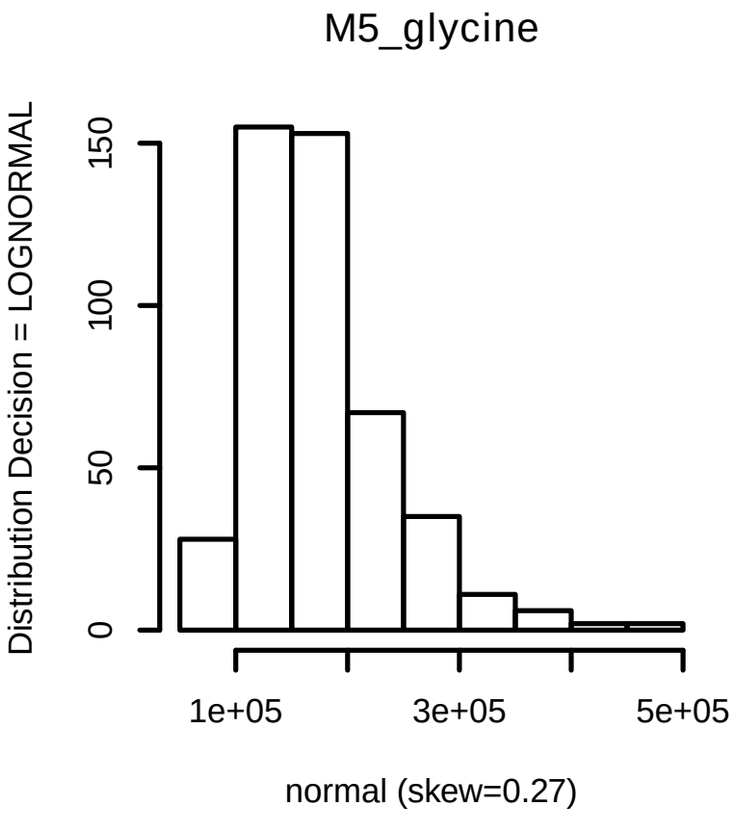

M5_alanine
Distribution Decision = NORMAL
0
20
40
60
80
11.0
11.5
12.0
12.5
13.0
13.5
lognormal (skew=0.068)

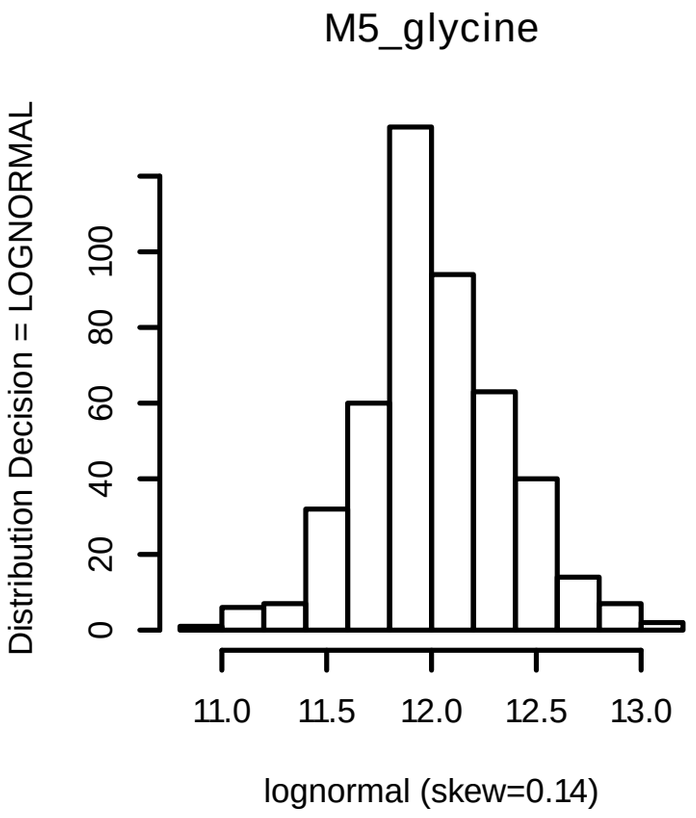

M5_cholesterol
Distribution Decision = NORMAL
0
50
100
150
0e+00
4e+05
8e+05
normal (skew=0.067)

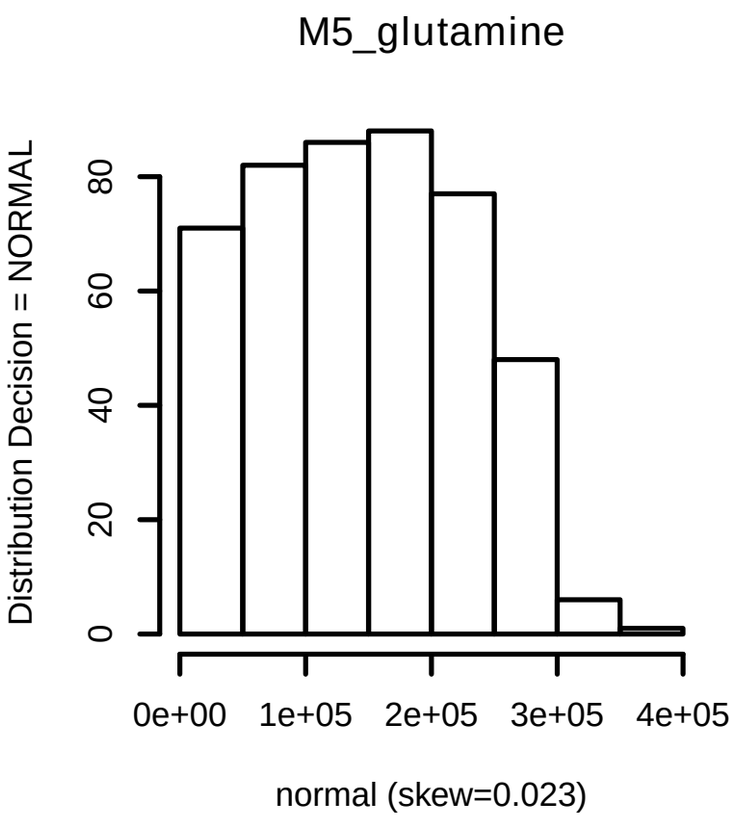

M5_cholesterol
Distribution Decision = NORMAL
0
50
100
150
200
250
8
10
12
14
lognormal (skew=0.61)

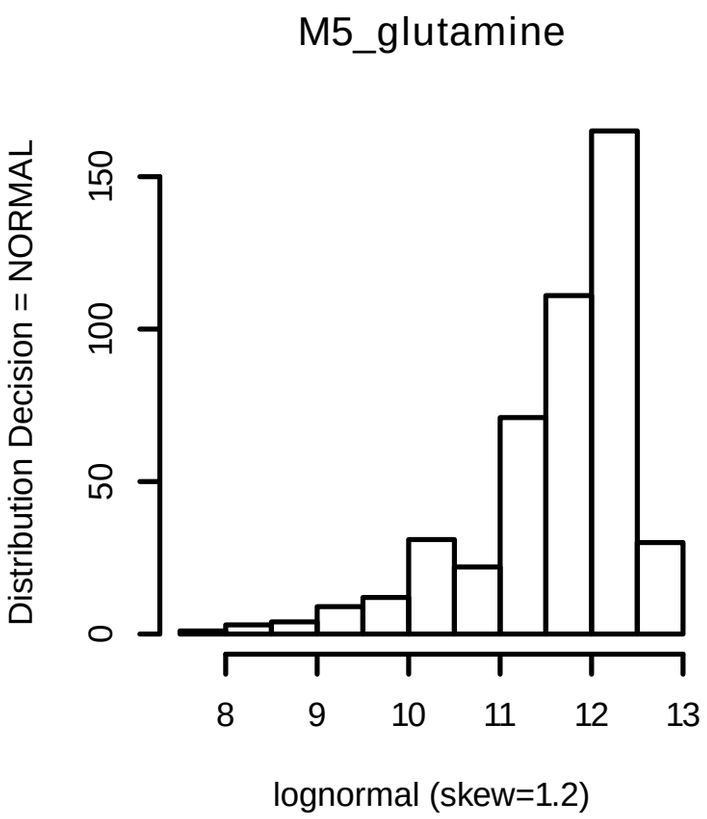

M5_valine
Distribution Decision = LOGNORMAL
0
50
100
150
50000
150000
250000
350000
normal (skew=0.085)

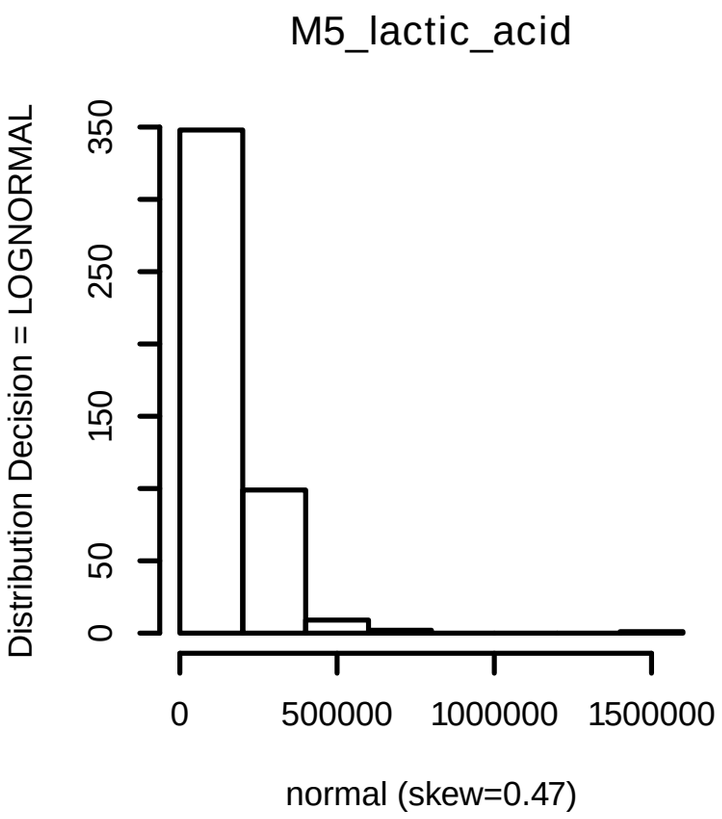

M5_valine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
11.0
11.5
12.0
12.5
lognormal (skew=0.074)

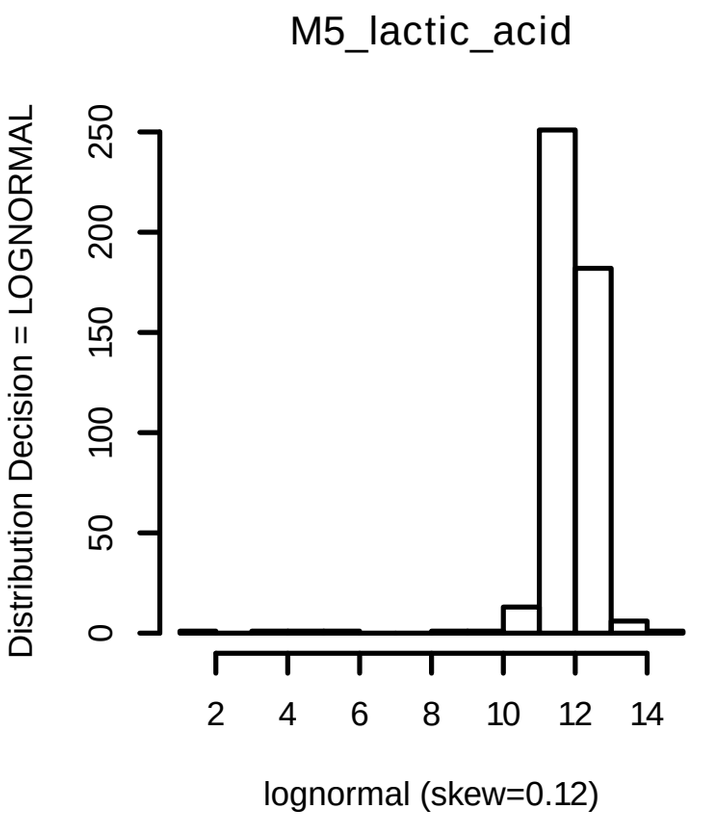

M5_glycine
Distribution Decision = LOGNORMAL
0
50
100
150
1e+05
3e+05
5e+05
normal (skew=0.27)

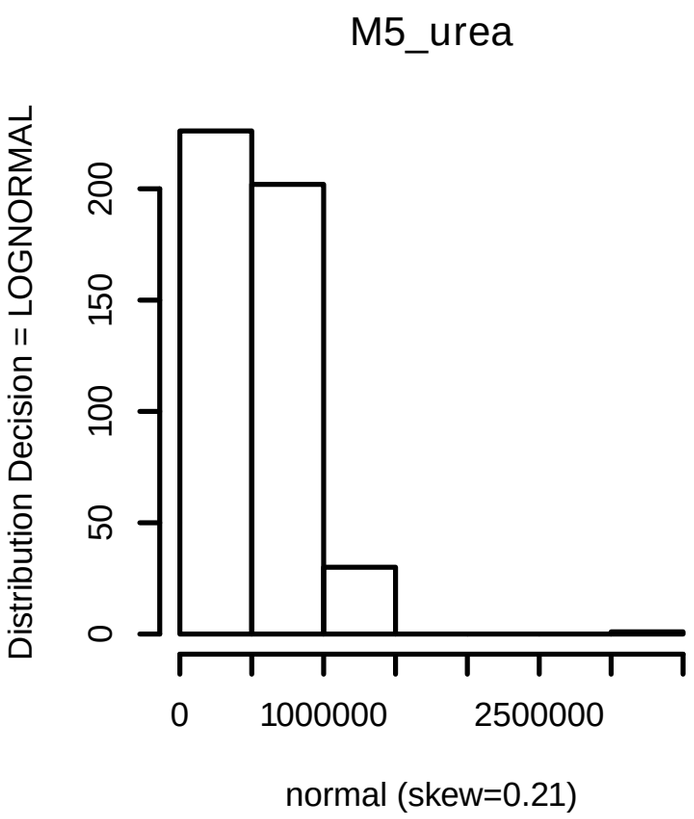

M5_glycine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
11.0
11.5
12.0
12.5
13.0
lognormal (skew=0.14)

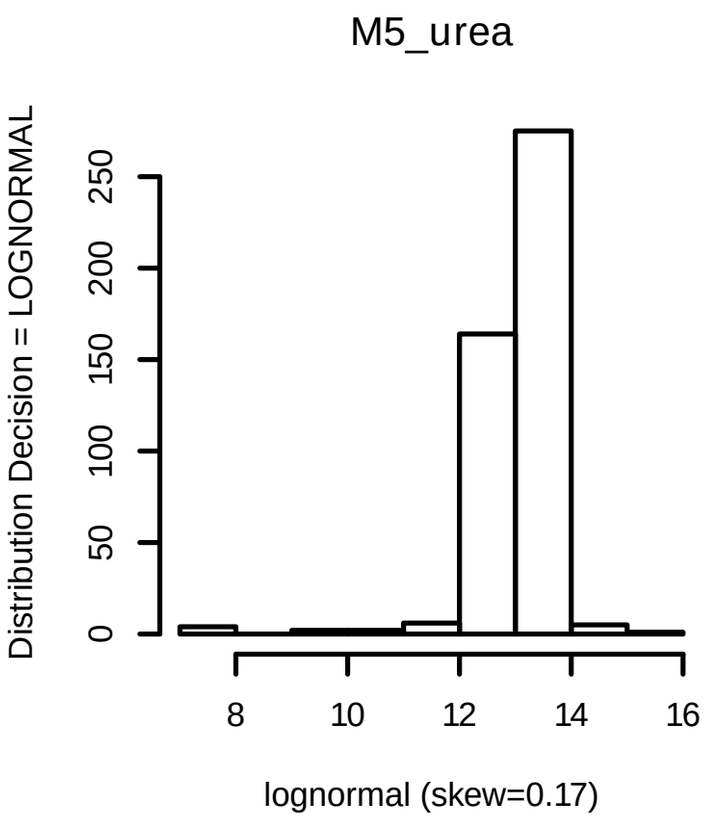

M5_glutamine
Distribution Decision = NORMAL
0
20
40
60
80
0e+00
1e+05
2e+05
3e+05
4e+05
normal (skew=0.023)

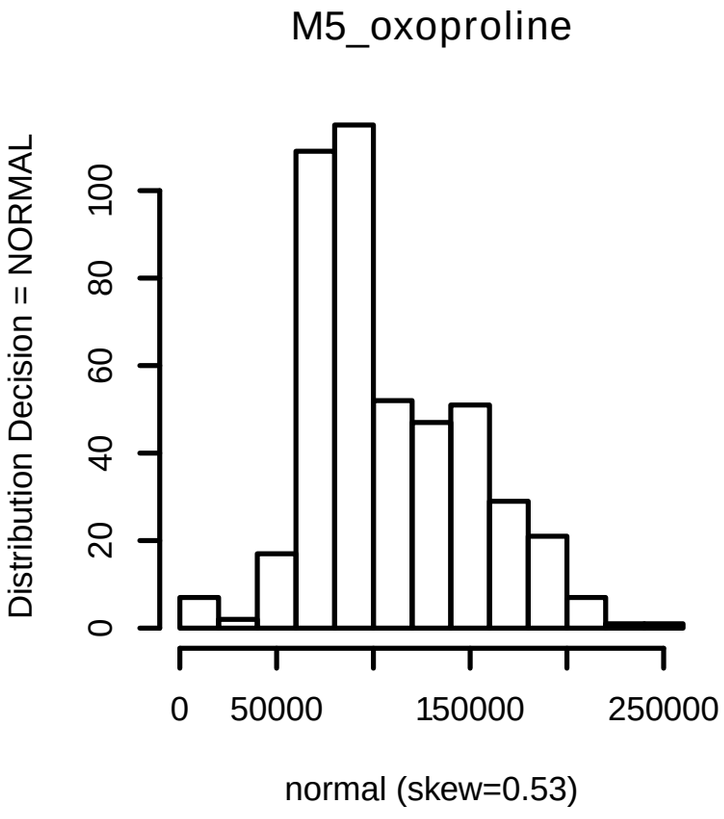

M5_glutamine
Distribution Decision = NORMAL
0
50
100
150
8
9
10
11
12
13
lognormal (skew=1.2)

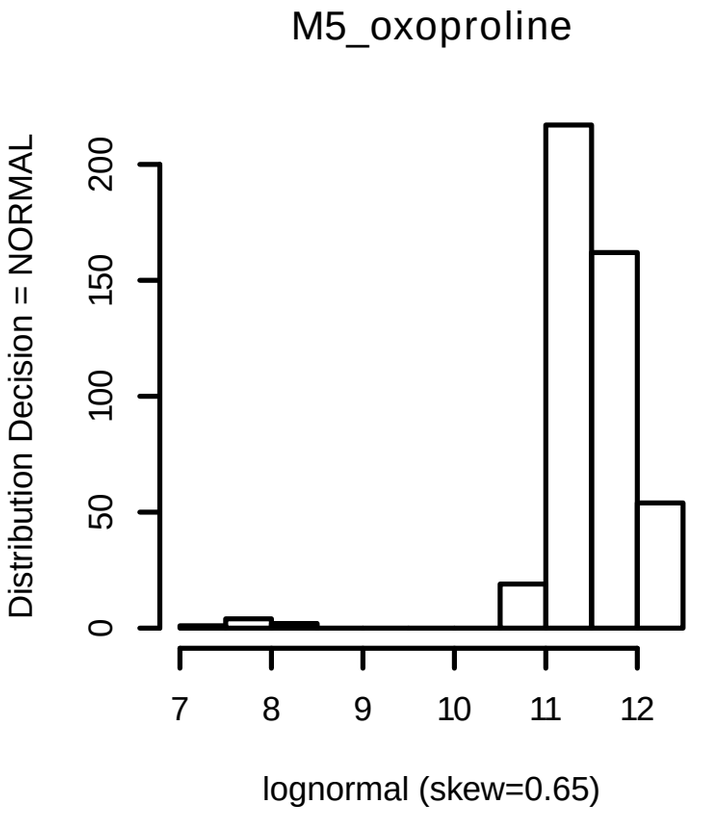

M5_lactic_acid
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
500000
1000000
1500000
normal (skew=0.47)

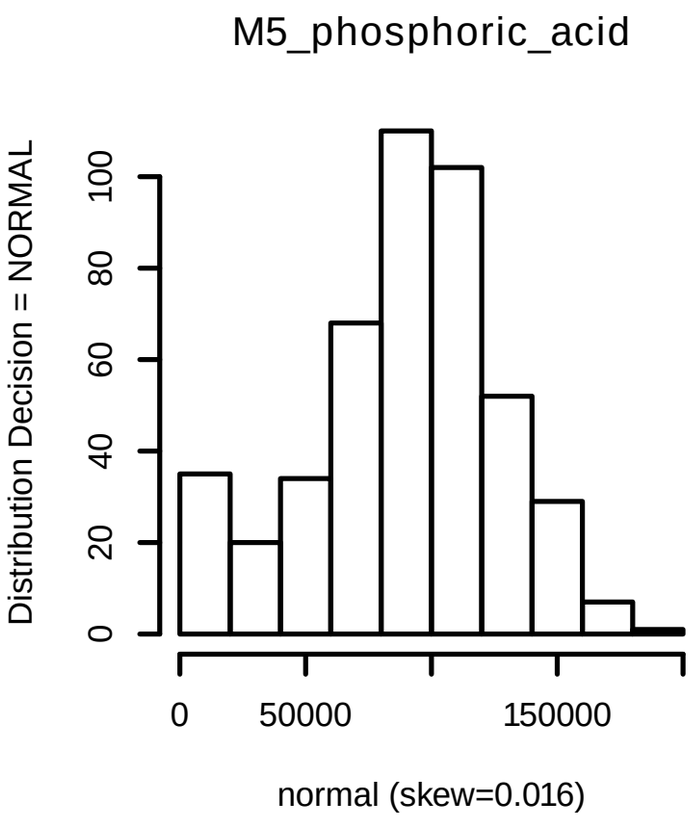

M5_lactic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
2
4
6
8
10
12
14
lognormal (skew=0.12)

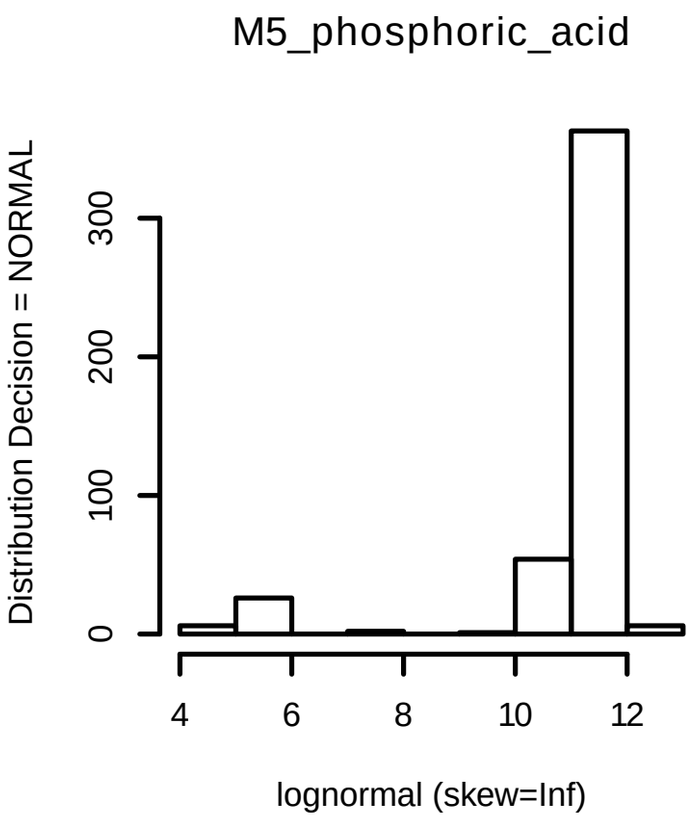

M5_urea
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000000
2500000
normal (skew=0.21)

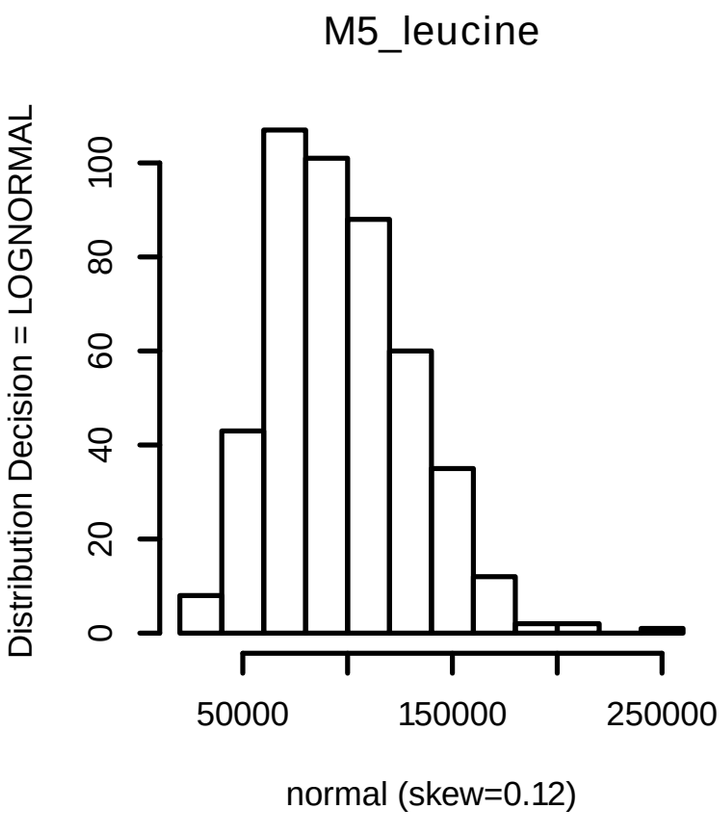

M5_urea
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
8
10
12
14
16
lognormal (skew=0.17)

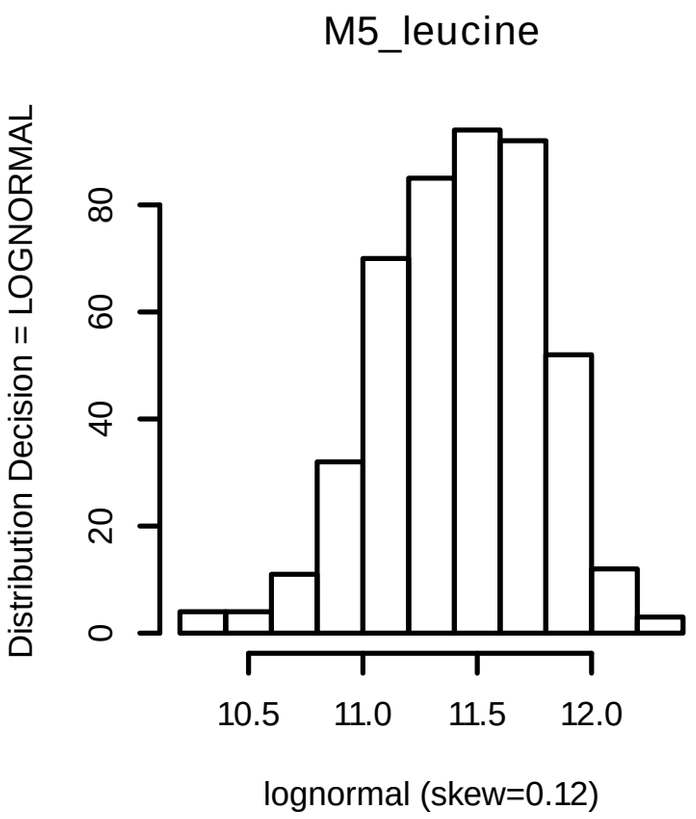

M5_oxoproline
Distribution Decision = NORMAL
0
20
40
60
80
100
0
50000
150000
250000
normal (skew=0.53)

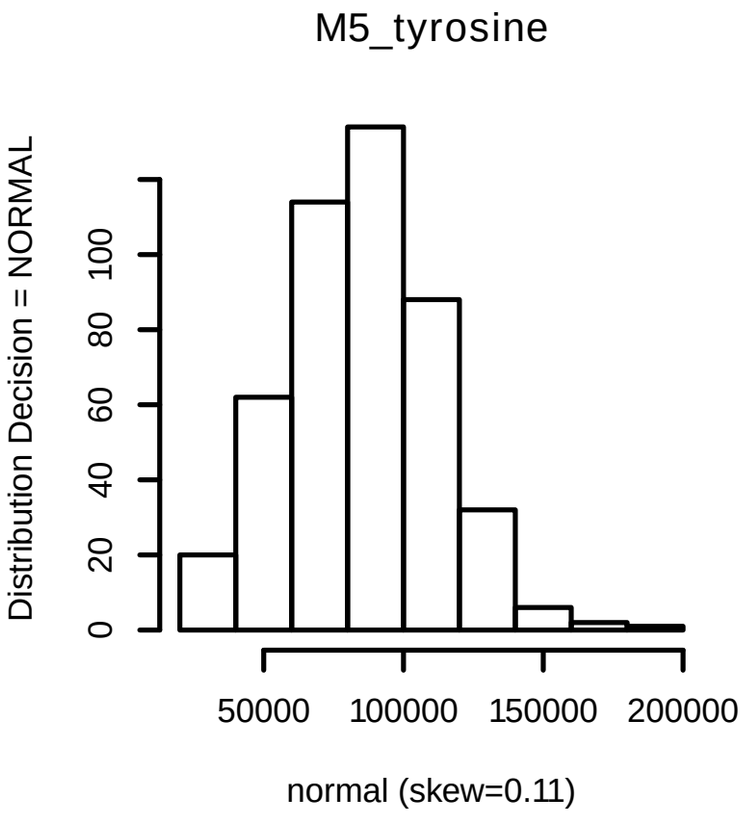

M5_oxoproline
Distribution Decision = NORMAL
0
50
100
150
200
7
8
9
10
11
12
lognormal (skew=0.65)

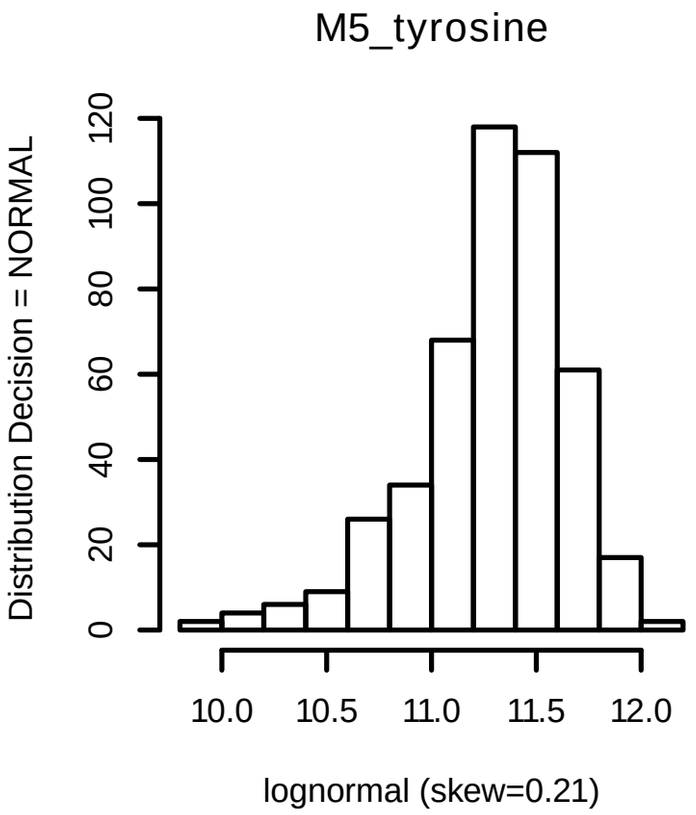

M5_phosphoric_acid
Distribution Decision = NORMAL
0
20
40
60
80
100
0
50000
150000
normal (skew=0.016)

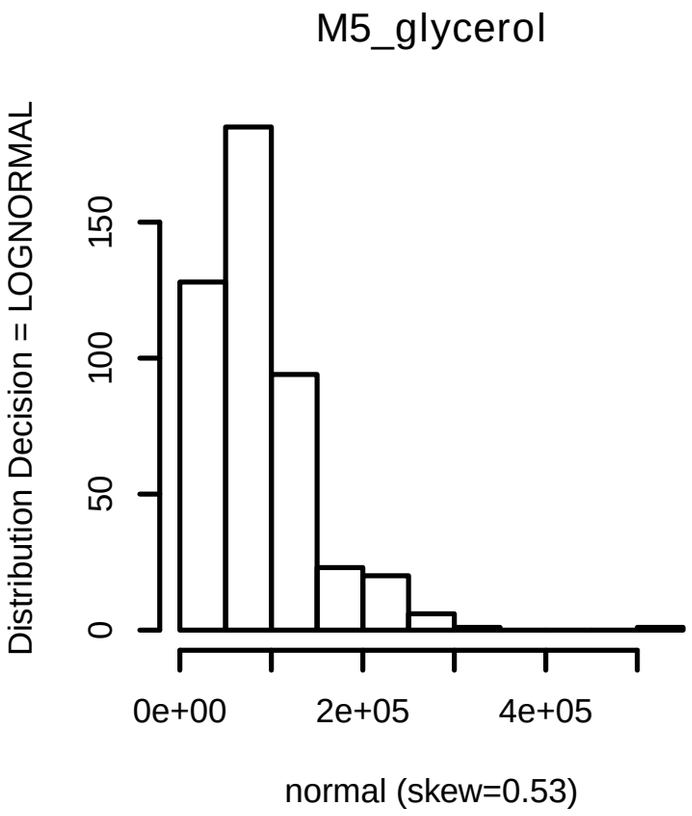

M5_phosphoric_acid
Distribution Decision = NORMAL
0
100
200
300
4
6
8
10
12
lognormal (skew=Inf)

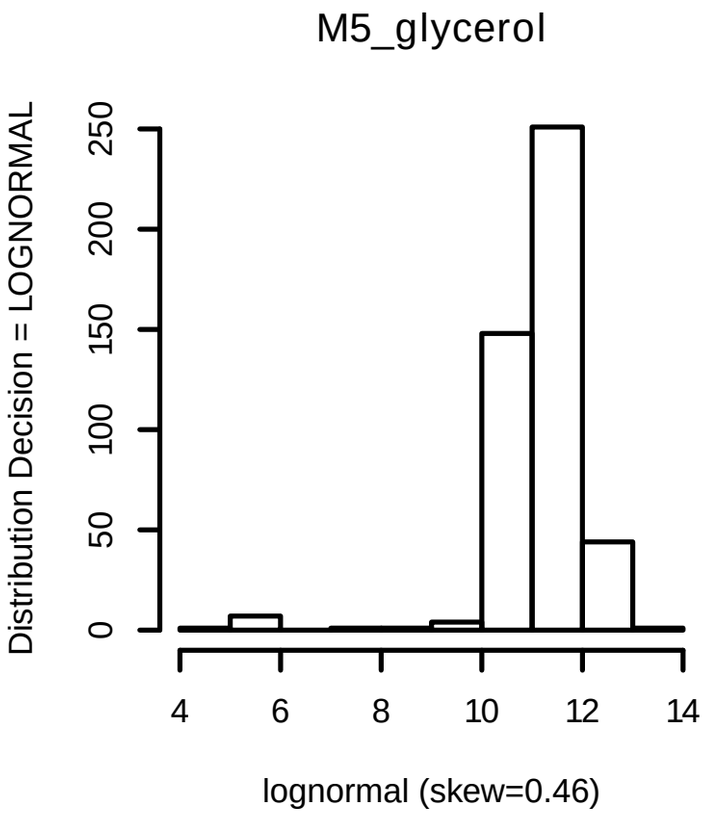

M5_leucine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
50000
150000
250000
normal (skew=0.12)

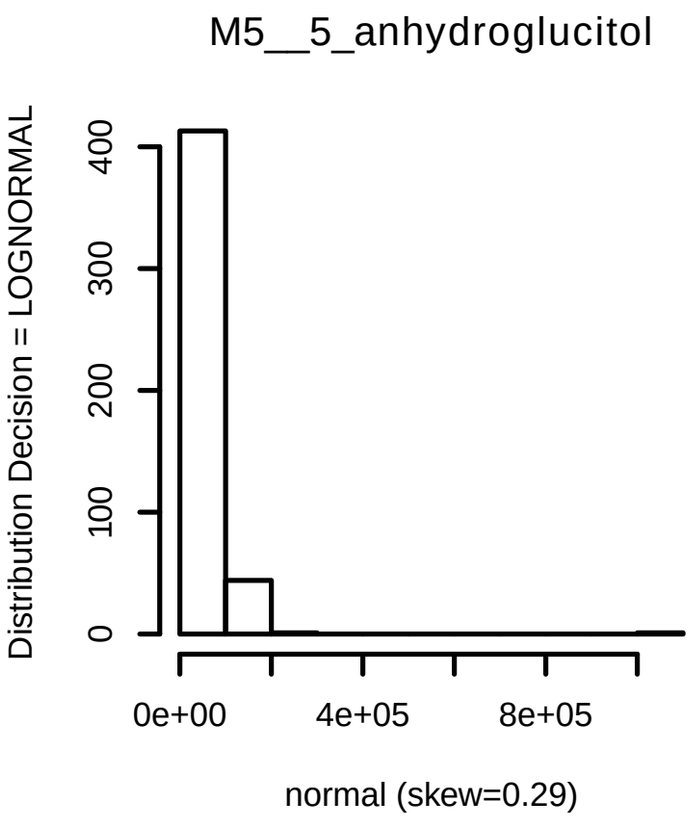

M5_leucine
Distribution Decision = LOGNORMAL
0
20
40
60
80
10.5
11.0
11.5
12.0
lognormal (skew=0.12)

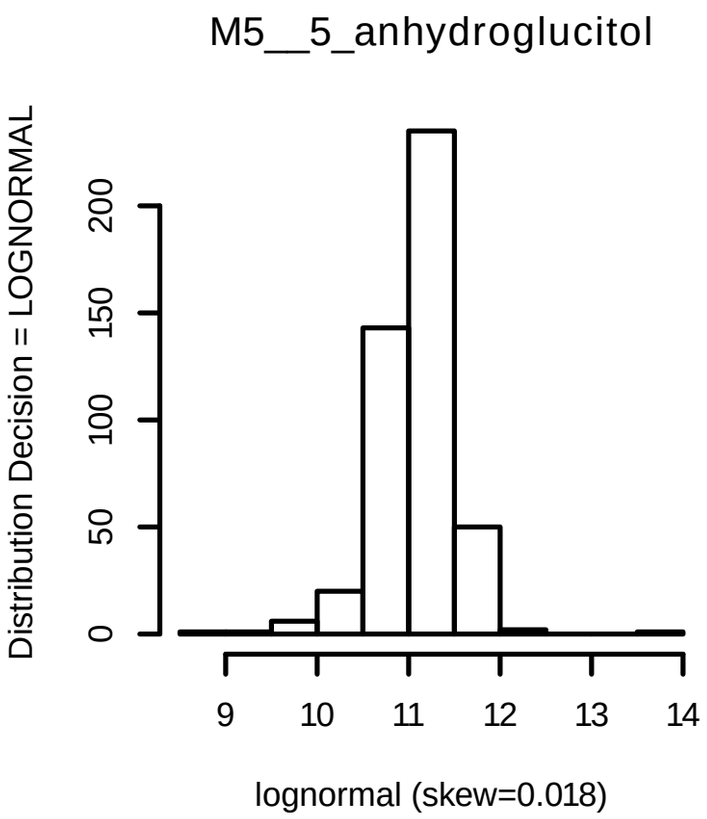

M5_tyrosine
Distribution Decision = NORMAL
0
20
40
60
80
100
50000
100000
150000
200000
normal (skew=0.11)

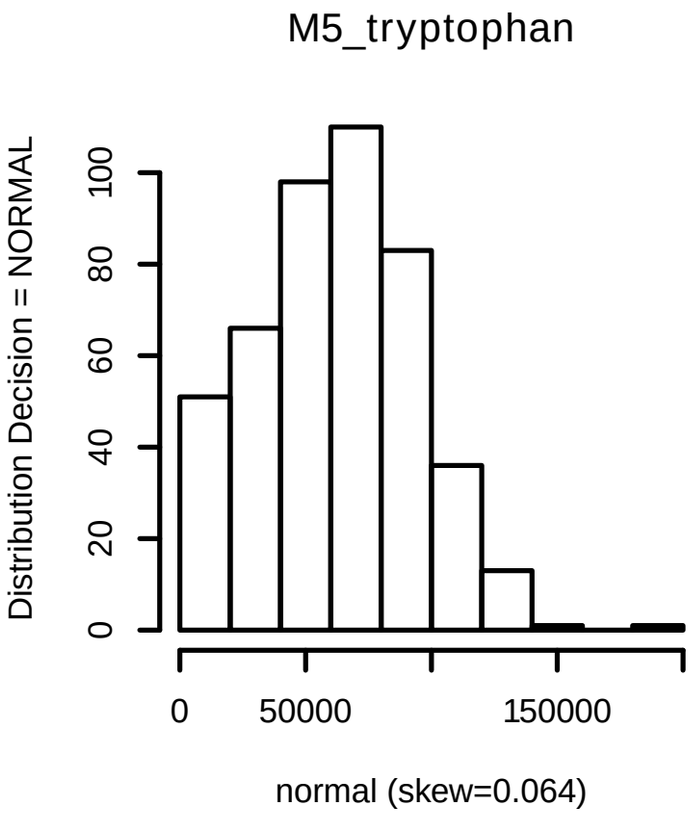

M5_tyrosine
Distribution Decision = NORMAL
0
20
40
60
80
100
120
10.0
10.5
11.0
11.5
12.0
lognormal (skew=0.21)

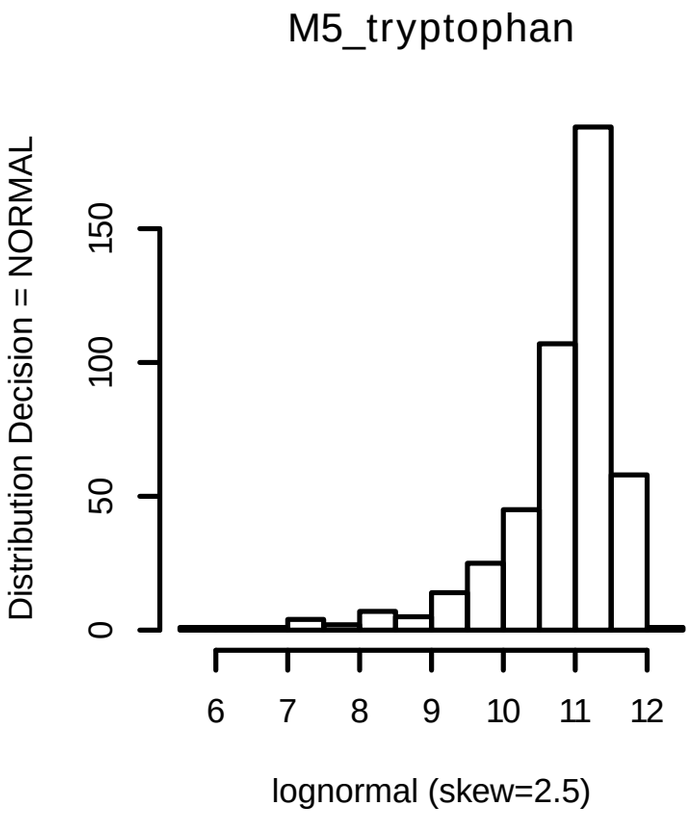

M5_glycerol
Distribution Decision = LOGNORMAL
0
50
100
150
0e+00
2e+05
4e+05
normal (skew=0.53)

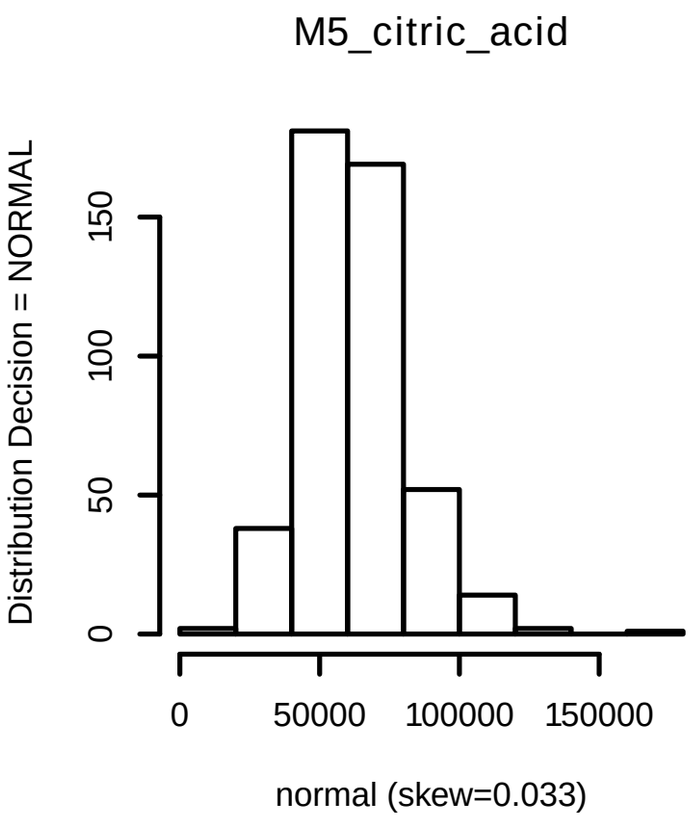

M5_glycerol
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
4
6
8
10
12
14
lognormal (skew=0.46)

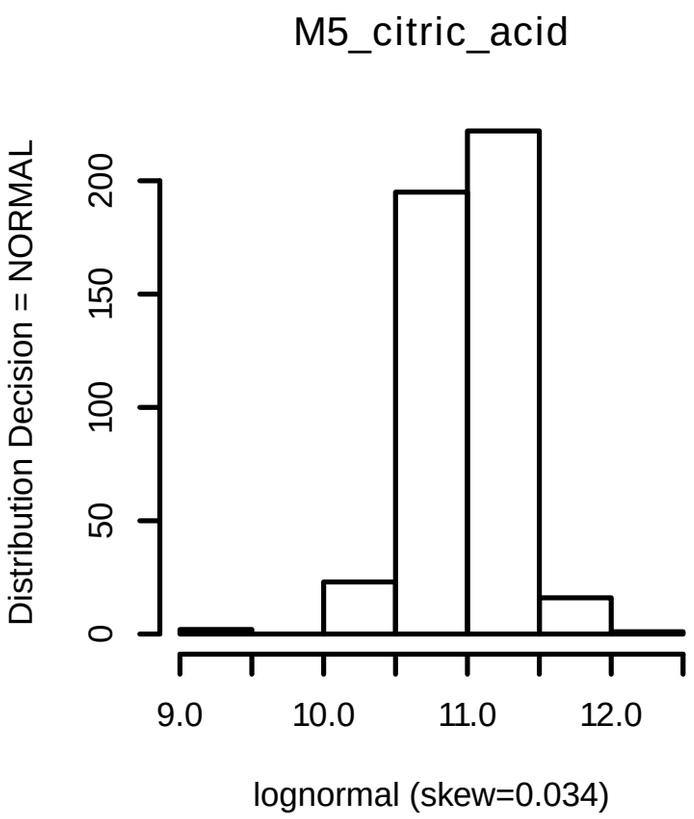

M5__5_anhydroglucitol
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
4e+05
8e+05
normal (skew=0.29)

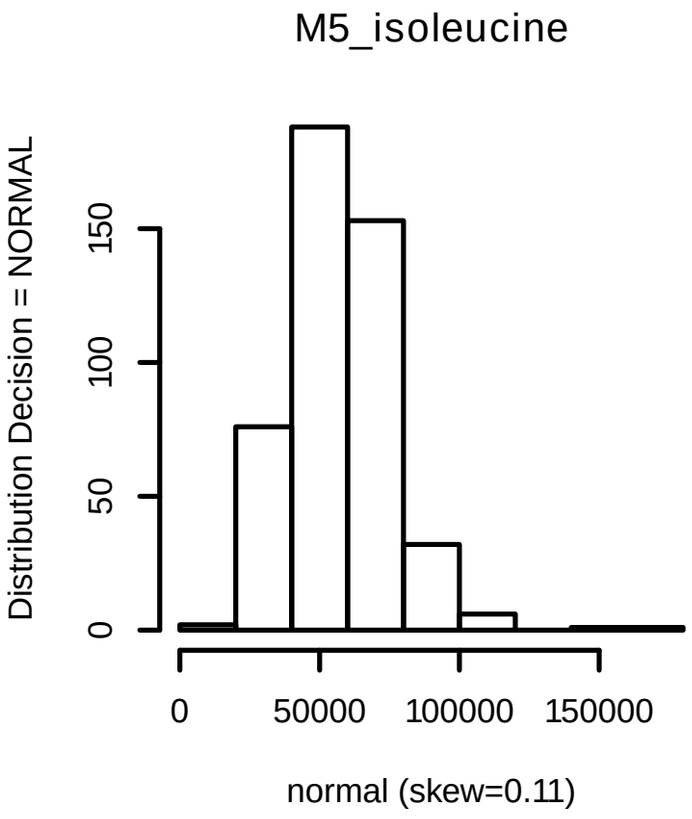

M5__5_anhydroglucitol
Distribution Decision = LOGNORMAL
0
50
100
150
200
9
10
11
12
13
14
lognormal (skew=0.018)

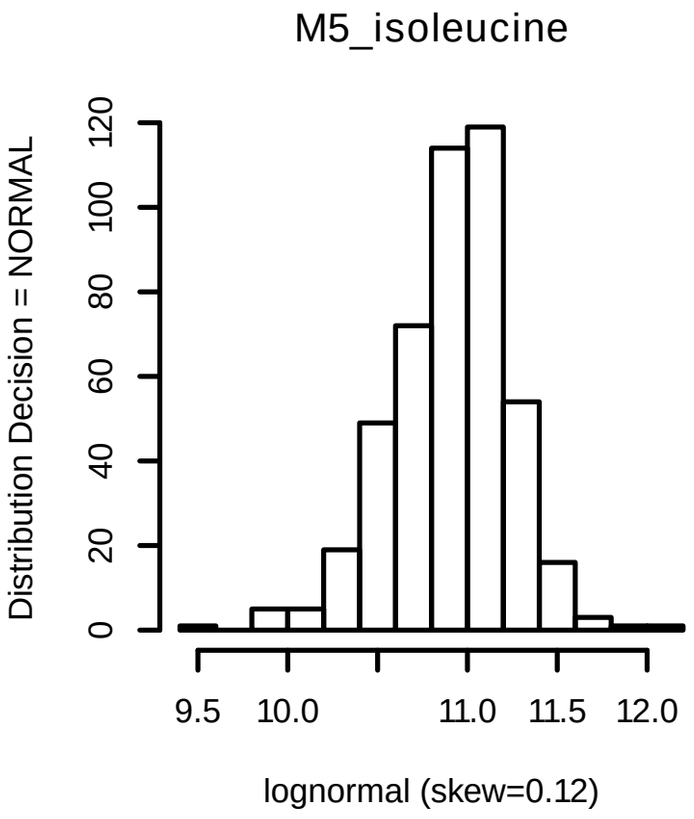

M5_tryptophan
Distribution Decision = NORMAL
0
20
40
60
80
100
0
50000
150000
normal (skew=0.064)

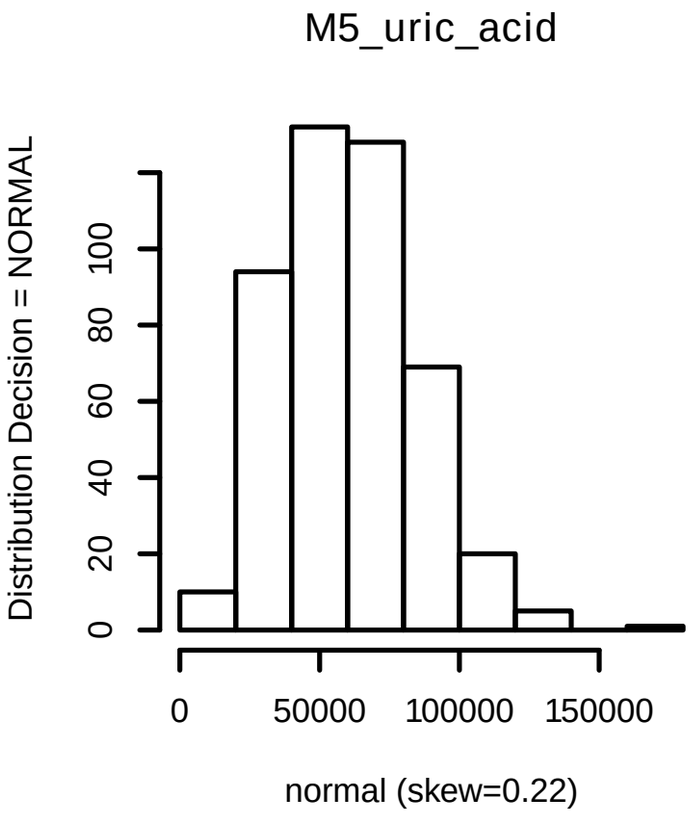

M5_tryptophan
Distribution Decision = NORMAL
0
50
100
150
6
7
8
9
10
11
12
lognormal (skew=2.5)

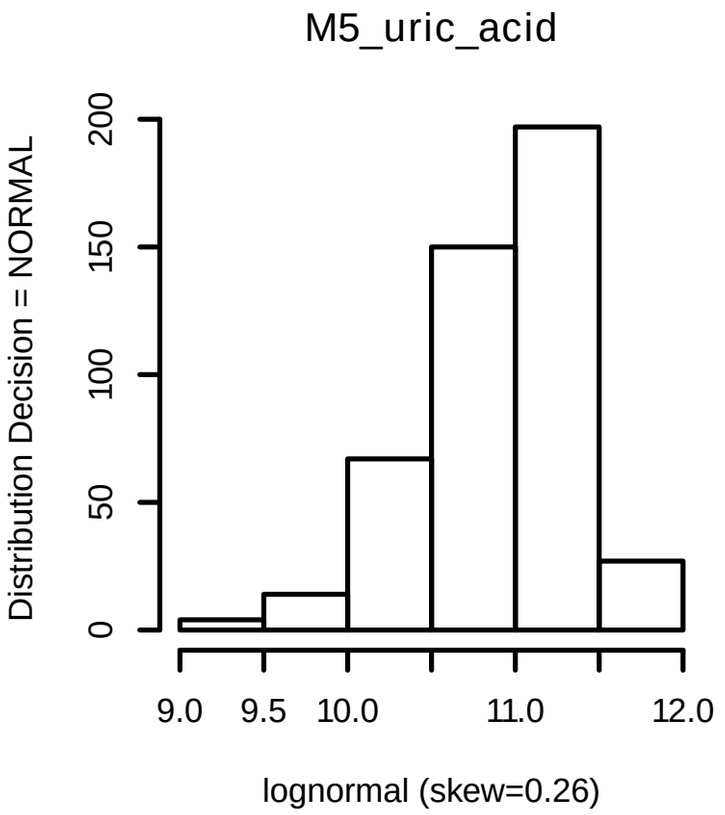

M5_citric_acid
Distribution Decision = NORMAL
0
50
100
150
0
50000
100000
150000
normal (skew=0.033)

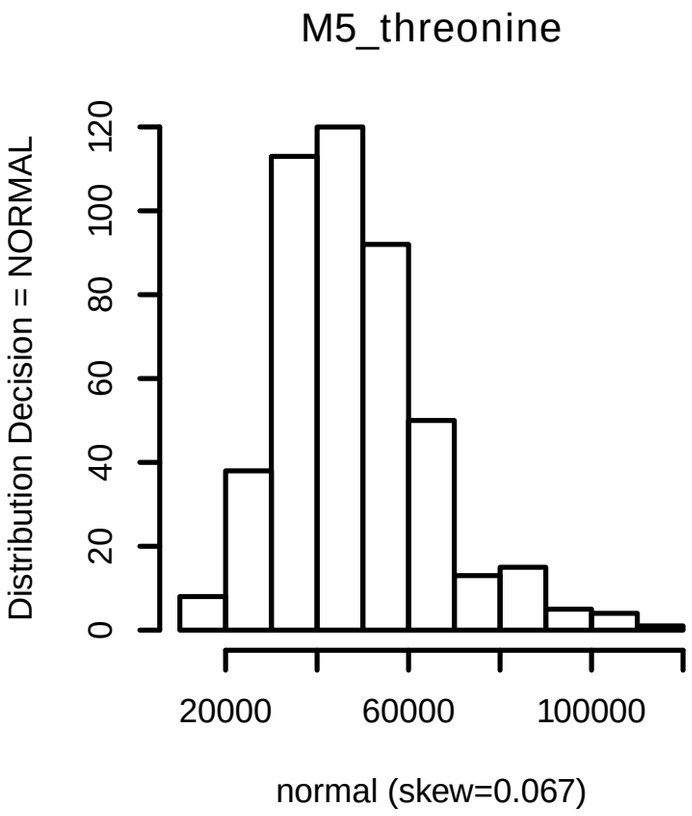

M5_citric_acid
Distribution Decision = NORMAL
0
50
100
150
200
9.0
10.0
11.0
12.0
lognormal (skew=0.034)

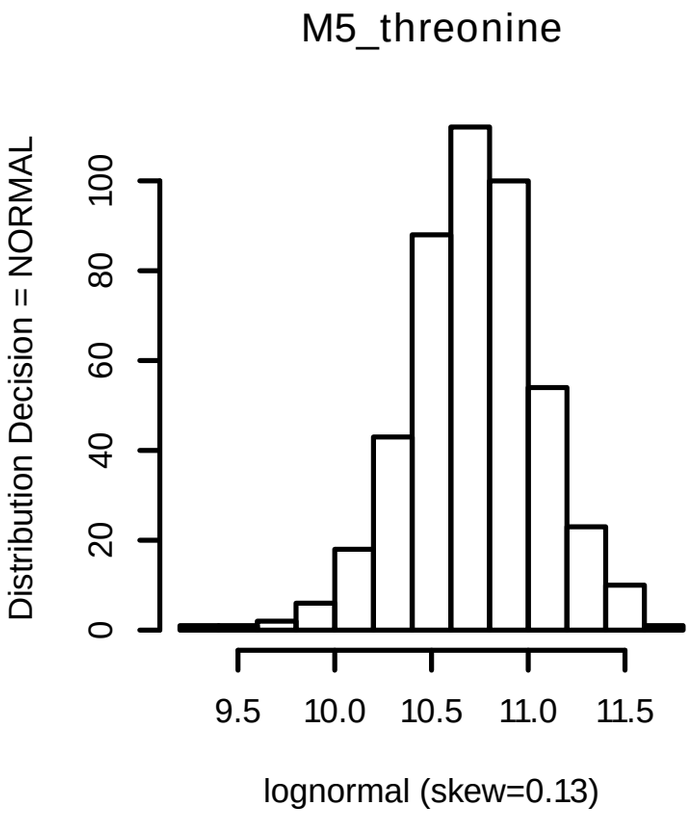

M5_isoleucine
Distribution Decision = NORMAL
0
50
100
150
0
50000
100000
150000
normal (skew=0.11)

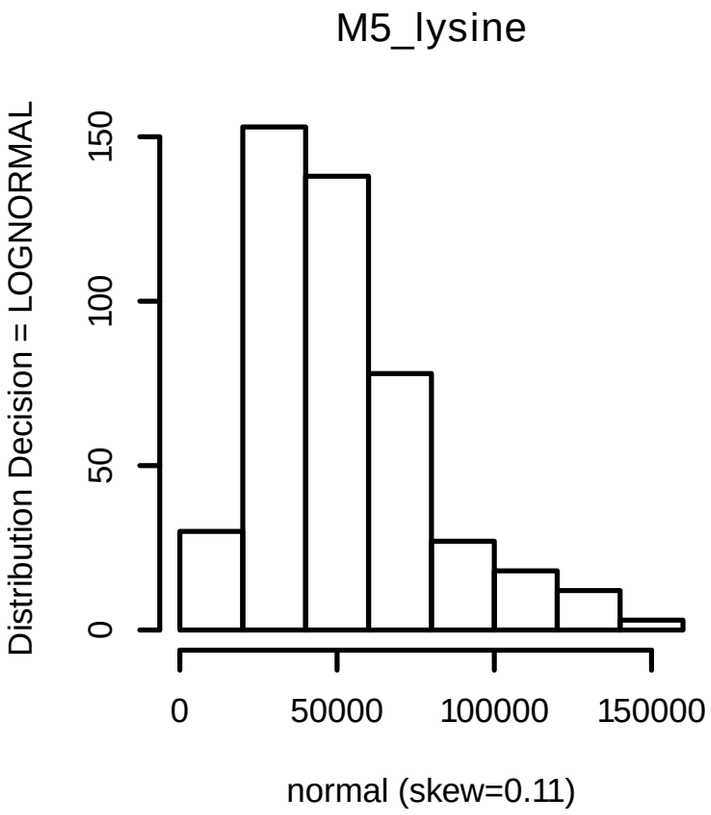

M5_isoleucine
Distribution Decision = NORMAL
0
20
40
60
80
100
120
9.5
10.0
11.0
11.5
12.0
lognormal (skew=0.12)

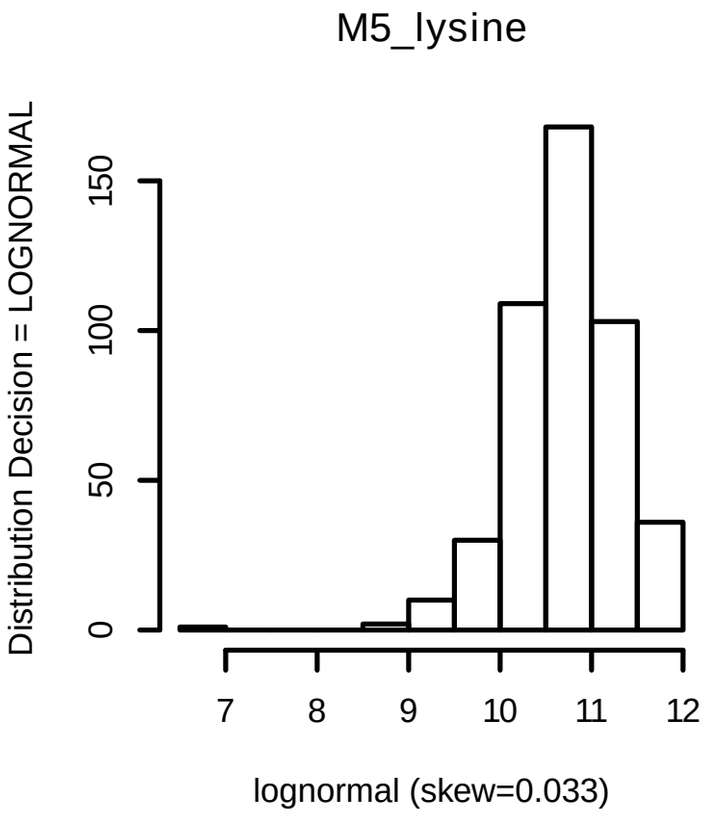

M5_uric_acid
Distribution Decision = NORMAL
0
20
40
60
80
100
0
50000
100000
150000
normal (skew=0.22)

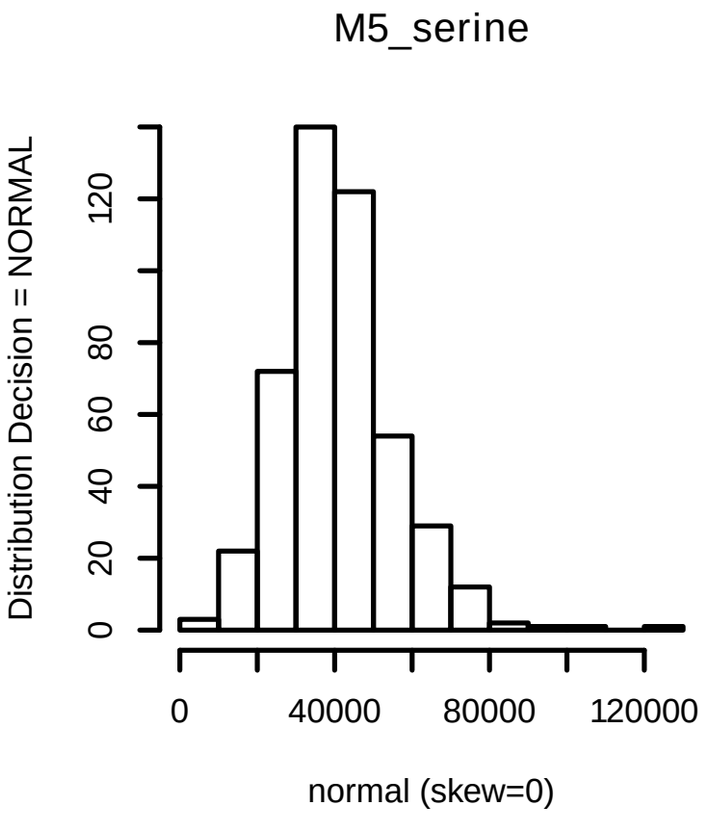

M5_uric_acid
Distribution Decision = NORMAL
0
50
100
150
200
9.0
9.5
10.0
11.0
12.0
lognormal (skew=0.26)

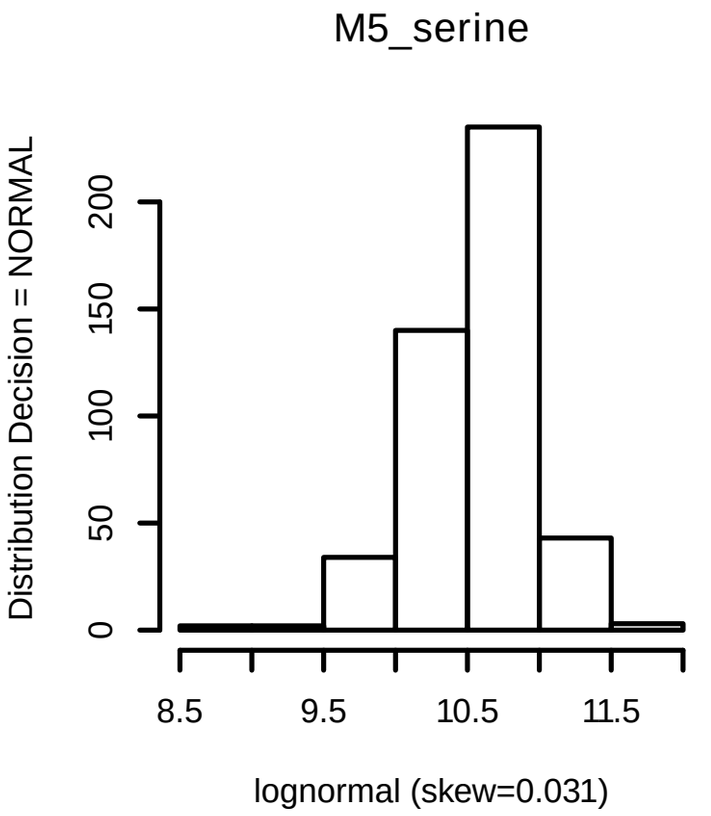

M5_threonine
Distribution Decision = NORMAL
0
20
40
60
80
100
120
20000
60000
100000
normal (skew=0.067)

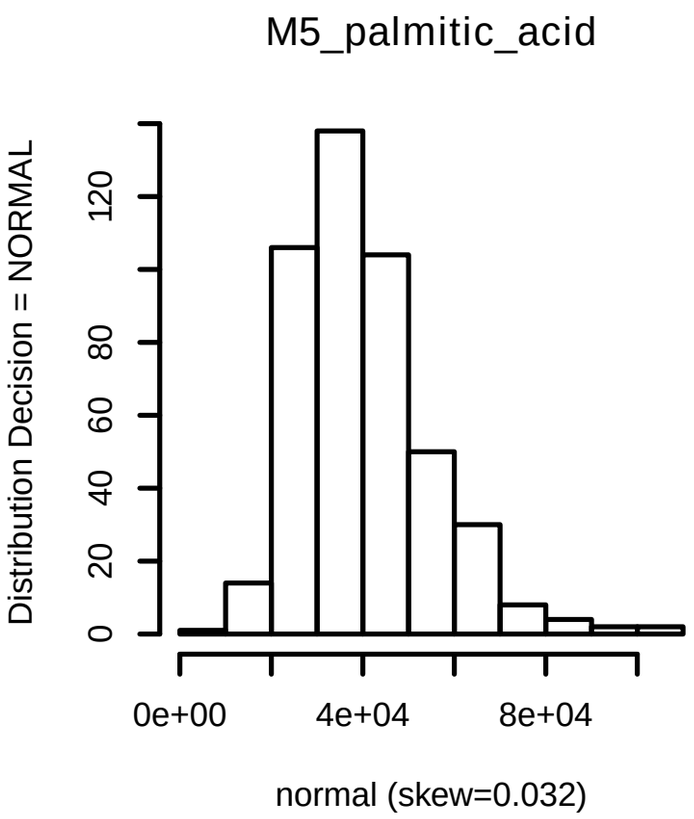

M5_threonine
Distribution Decision = NORMAL
0
20
40
60
80
100
9.5
10.0
10.5
11.0
11.5
lognormal (skew=0.13)

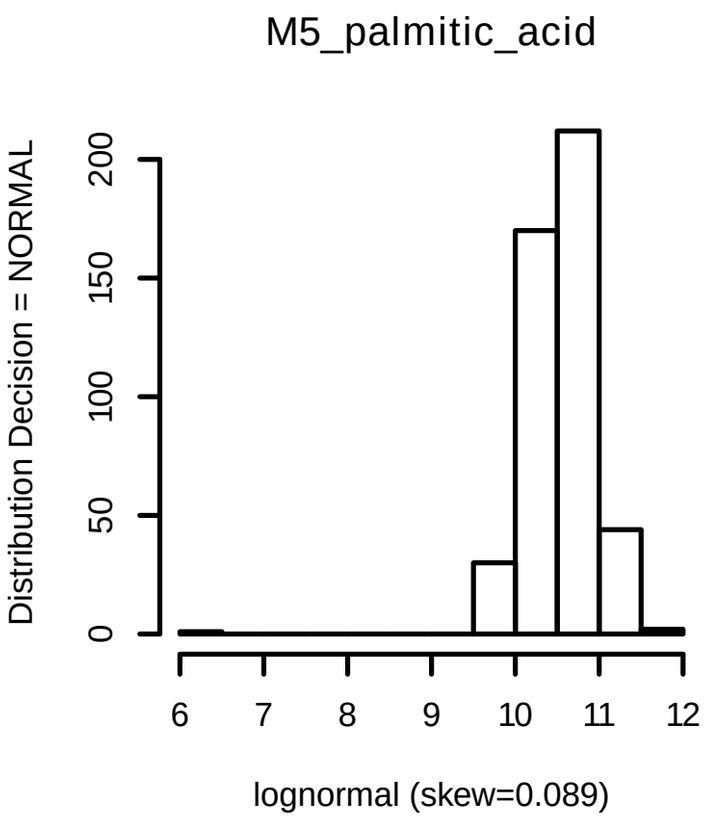

M5_lysine
Distribution Decision = LOGNORMAL
0
50
100
150
0
50000
100000
150000
normal (skew=0.11)

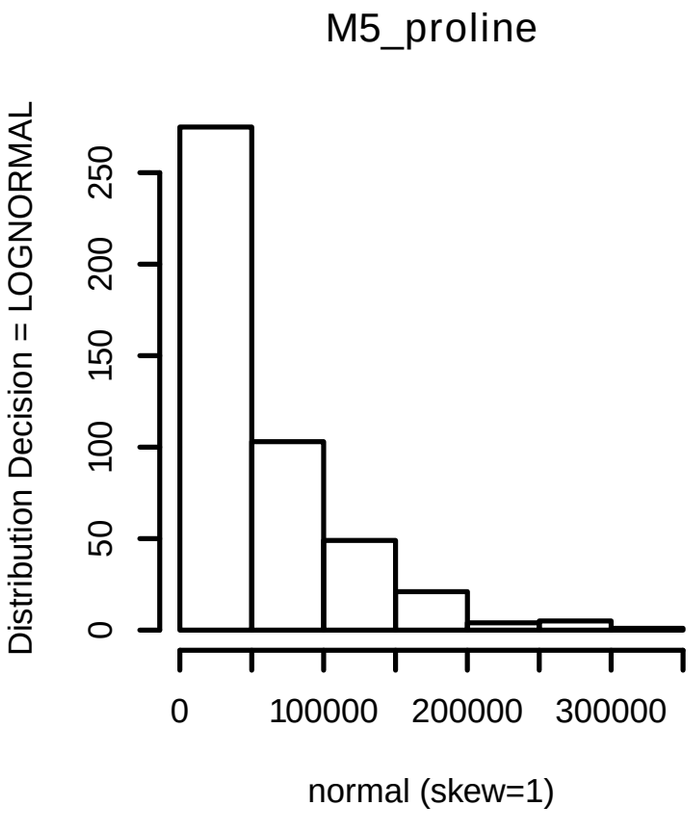

M5_lysine
Distribution Decision = LOGNORMAL
0
50
100
150
7
8
9
10
11
12
lognormal (skew=0.033)

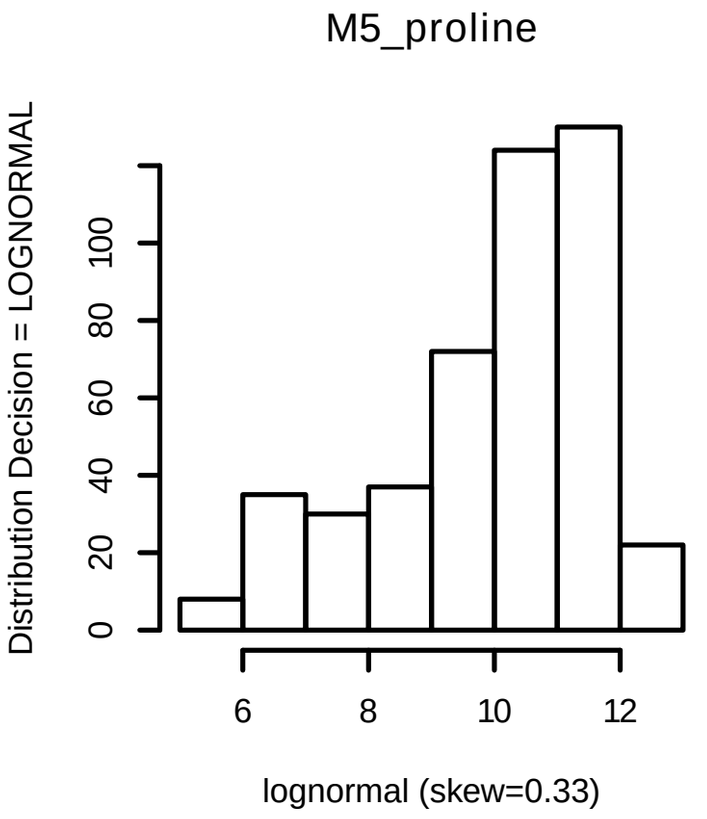

M5_serine
Distribution Decision = NORMAL
0
20
40
60
80
120
0
40000
80000
120000
normal (skew=0)

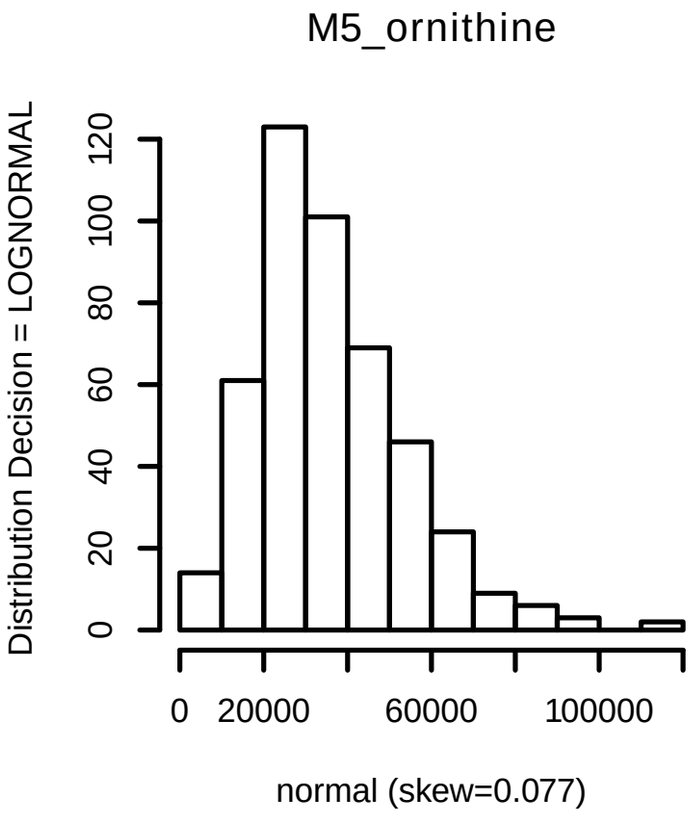

M5_serine
Distribution Decision = NORMAL
0
50
100
150
200
8.5
9.5
10.5
11.5
lognormal (skew=0.031)

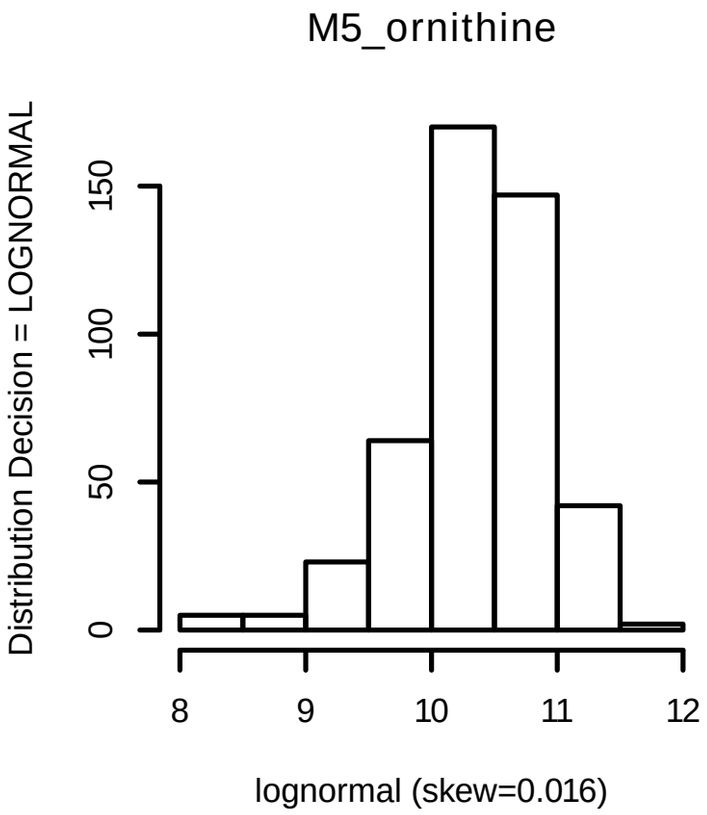

M5_palmitic_acid
Distribution Decision = NORMAL
0
20
40
60
80
120
0e+00
4e+04
8e+04
normal (skew=0.032)

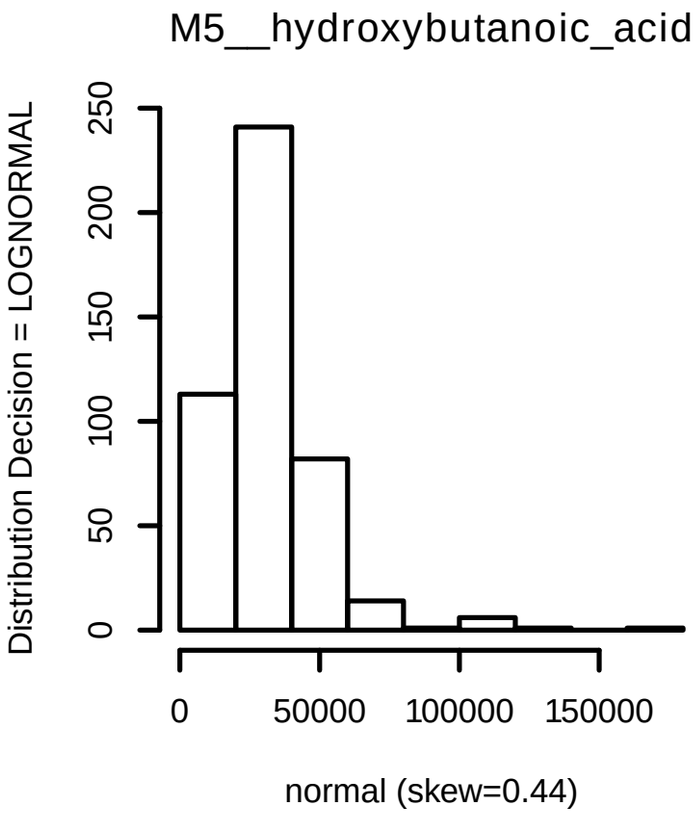

M5_palmitic_acid
Distribution Decision = NORMAL
0
50
100
150
200
6
7
8
9
10
11
12
lognormal (skew=0.089)

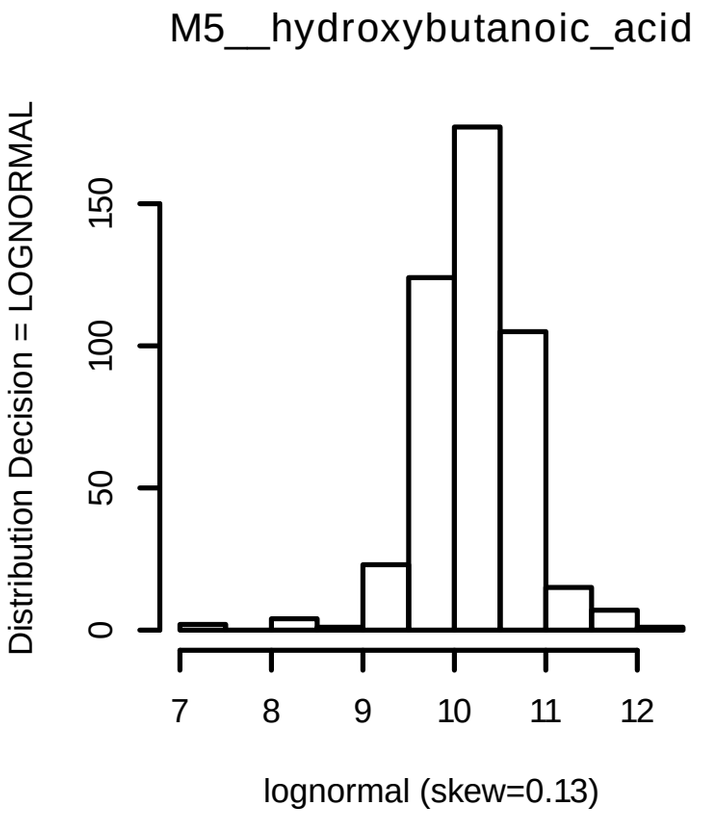

M5_proline
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
100000
200000
300000
normal (skew=1)

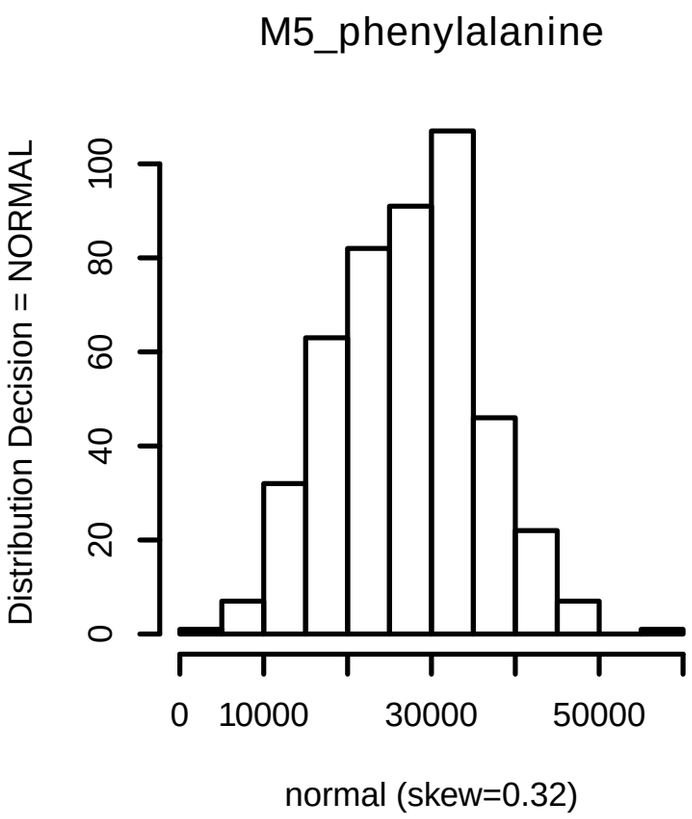

M5_proline
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
8
10
12
lognormal (skew=0.33)

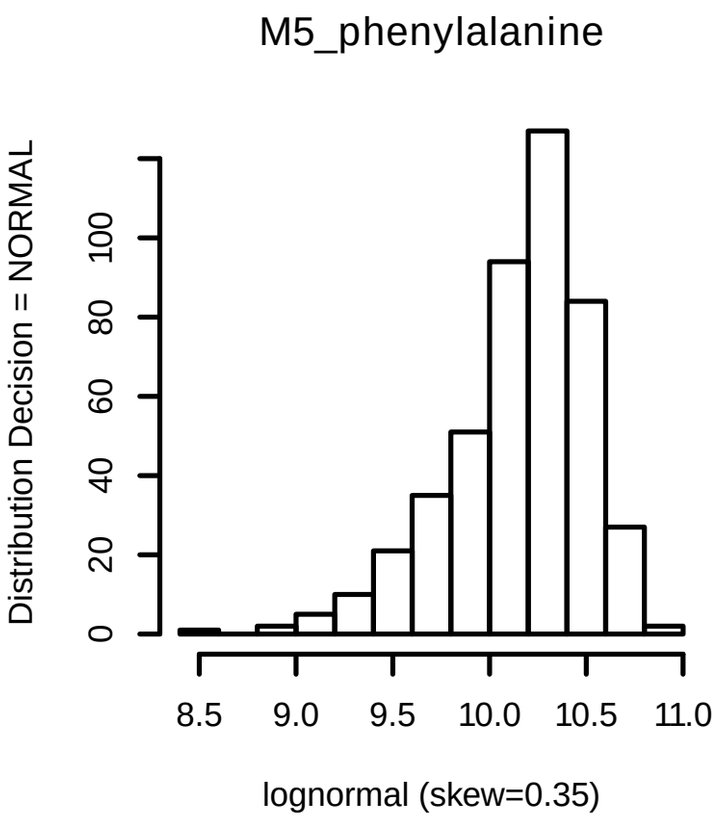

M5_ornithine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
20000
60000
100000
normal (skew=0.077)

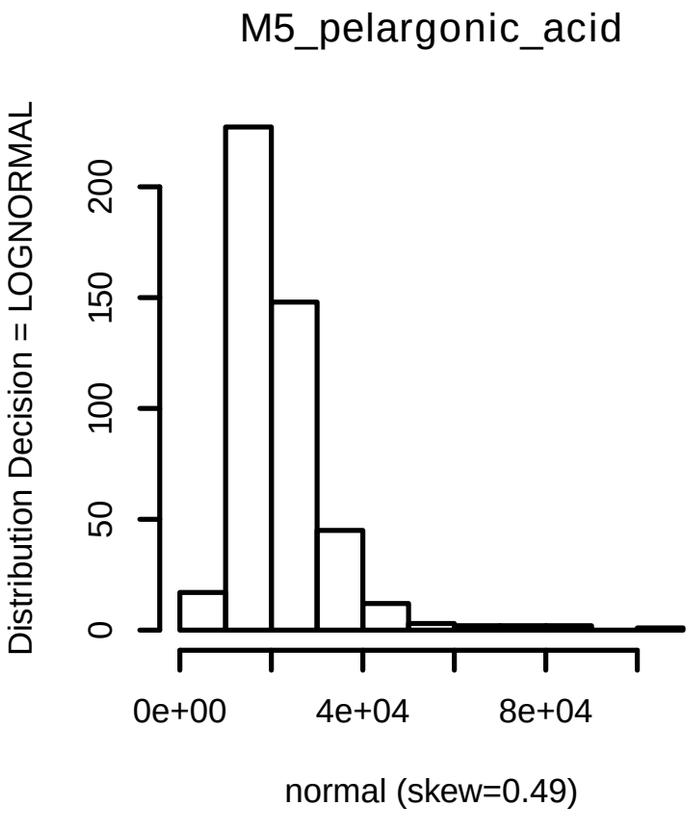

M5_ornithine
Distribution Decision = LOGNORMAL
0
50
100
150
8
9
10
11
12
lognormal (skew=0.016)

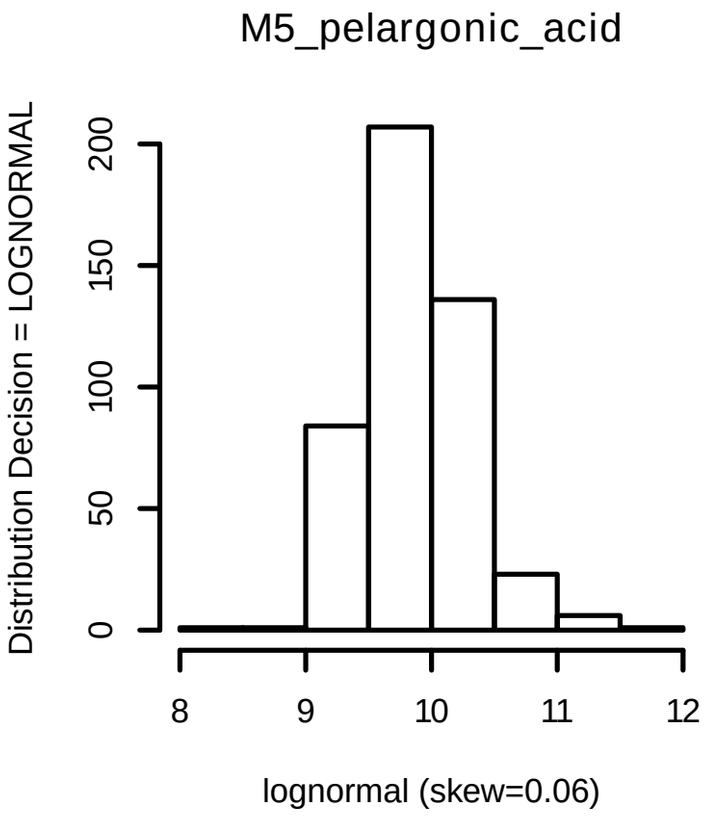

M5__hydroxybutanoic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
50000
100000
150000
normal (skew=0.44)

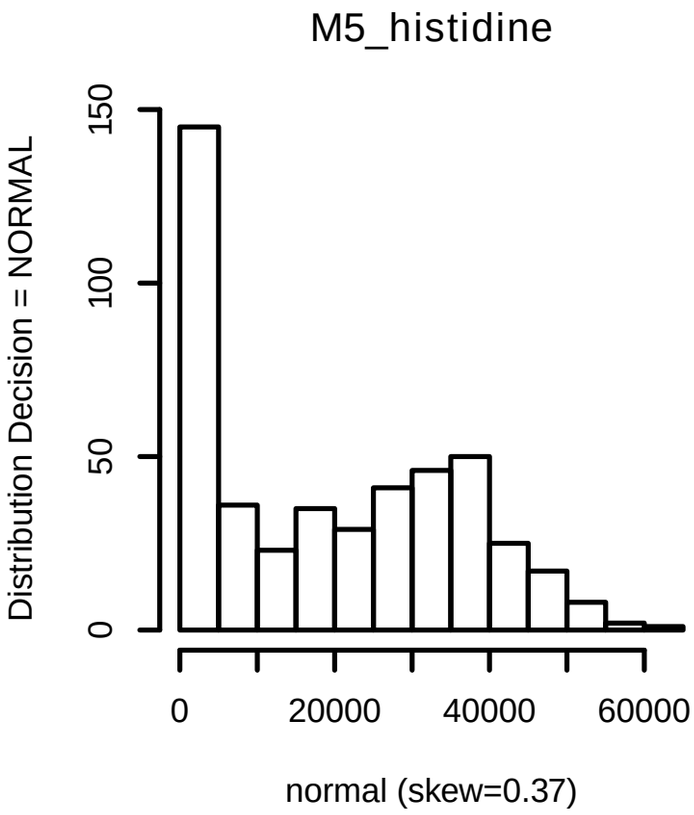

M5__hydroxybutanoic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
7
8
9
10
11
12
lognormal (skew=0.13)

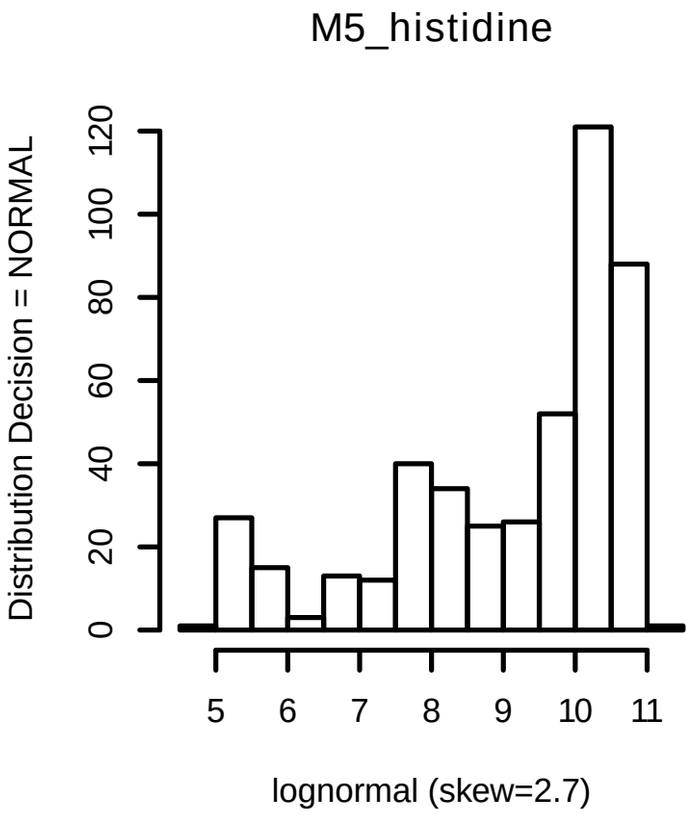

M5_phenylalanine
Distribution Decision = NORMAL
0
20
40
60
80
100
0
10000
30000
50000
normal (skew=0.32)

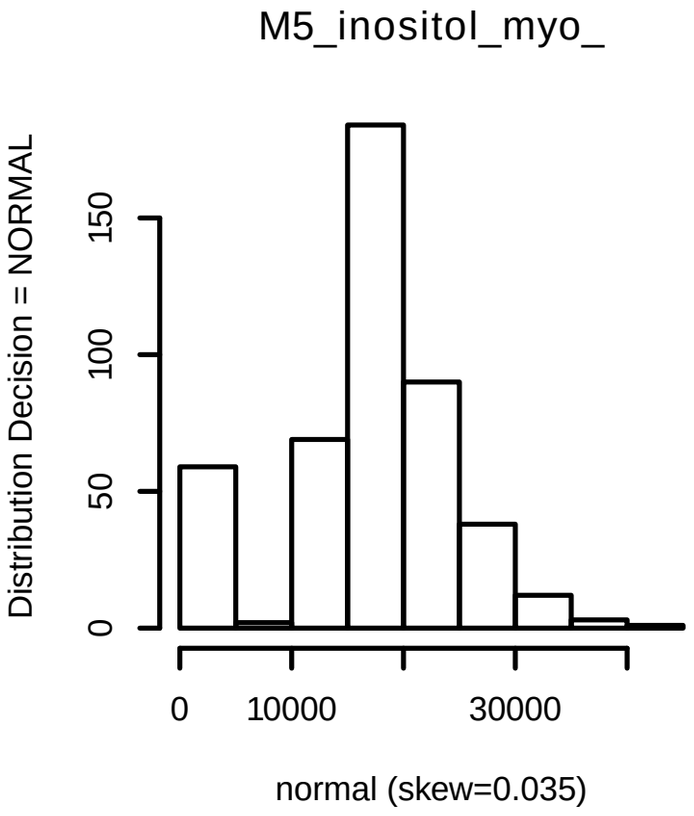

M5_phenylalanine
Distribution Decision = NORMAL
0
20
40
60
80
100
8.5
9.0
9.5
10.0
10.5
11.0
lognormal (skew=0.35)

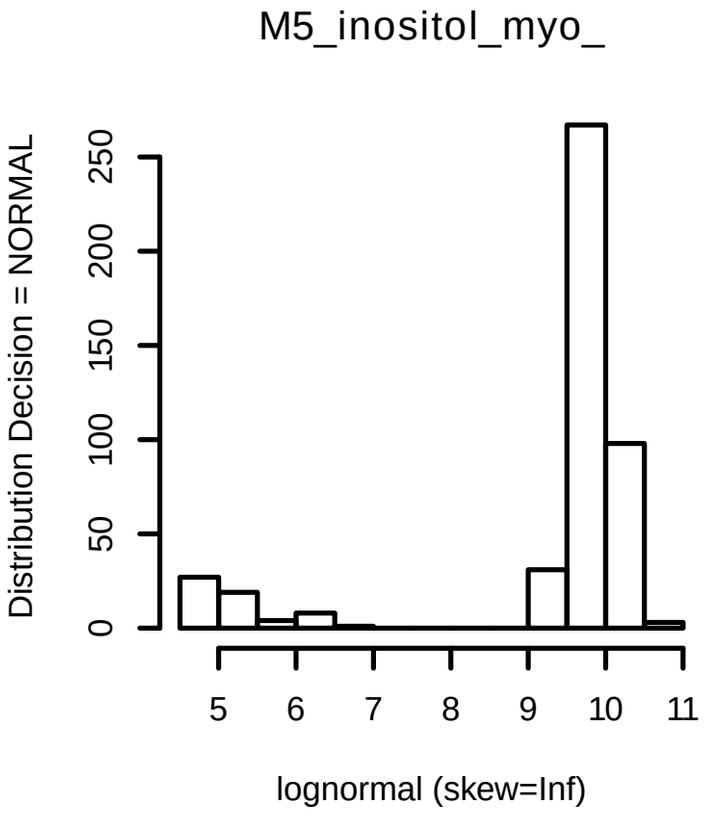

M5_pelargonic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
0e+00
4e+04
8e+04
normal (skew=0.49)

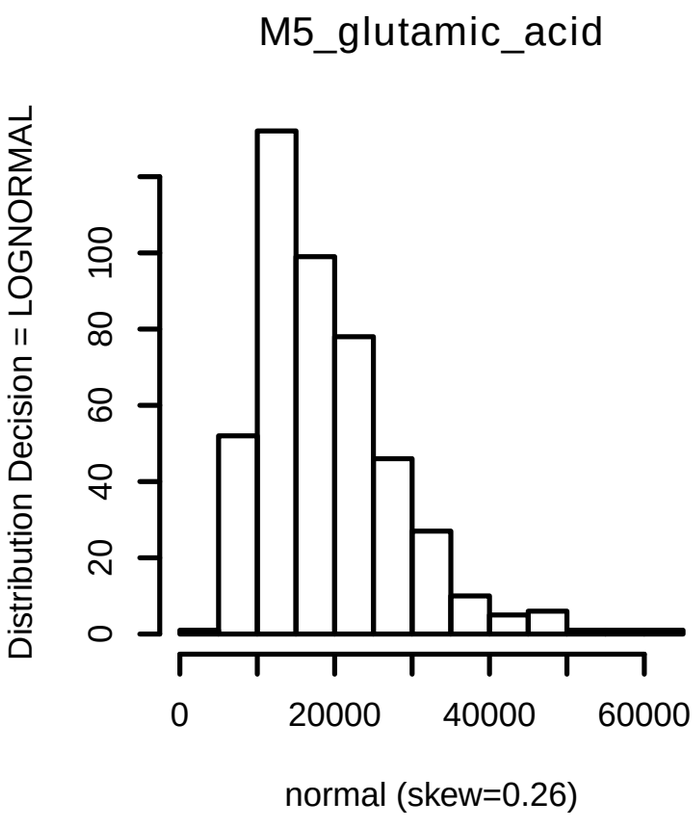

M5_pelargonic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
8
9
10
11
12
lognormal (skew=0.06)

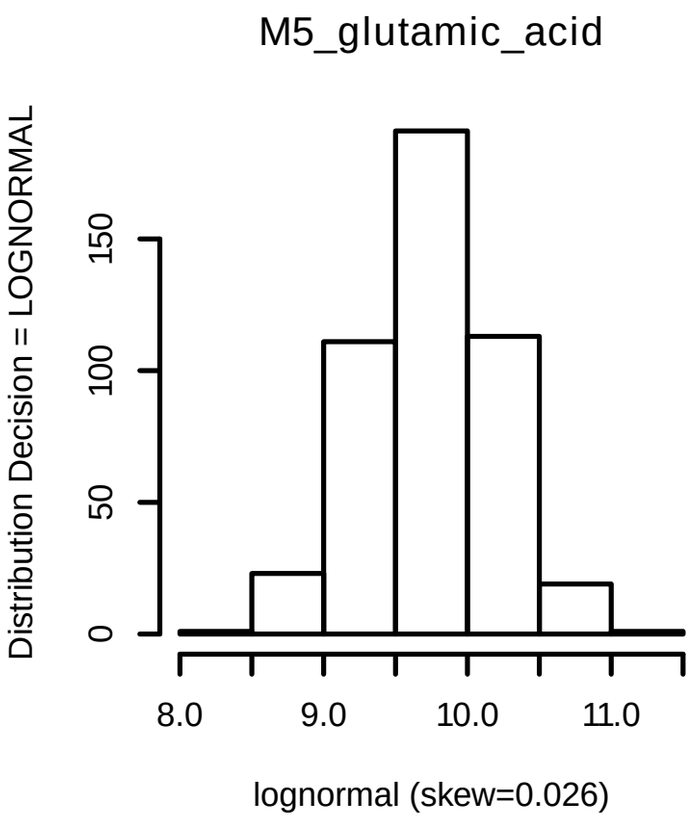

M5_histidine
Distribution Decision = NORMAL
0
50
100
150
0
20000
40000
60000
normal (skew=0.37)

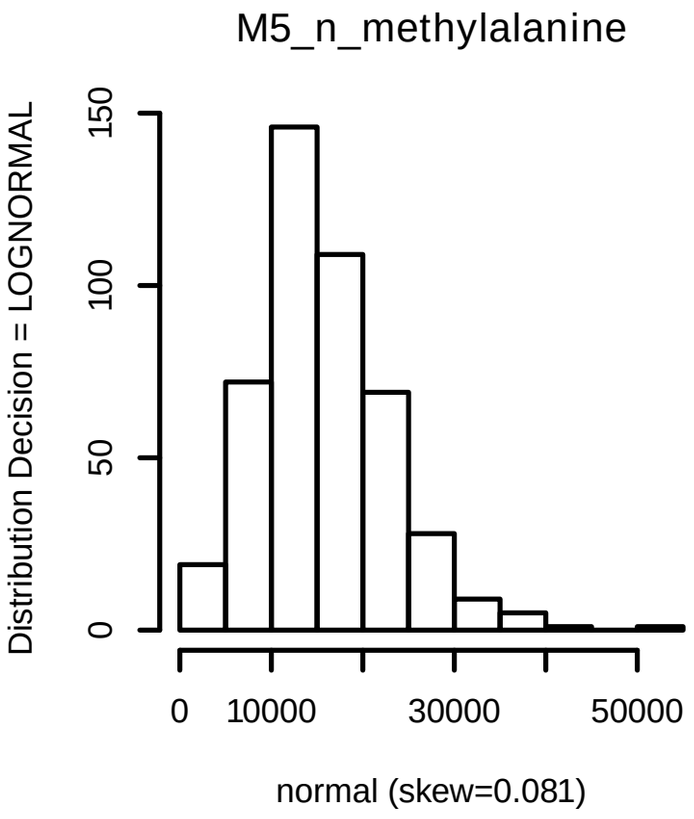

M5_histidine
Distribution Decision = NORMAL
0
20
40
60
80
100
120
5
6
7
8
9
10
11
lognormal (skew=2.7)

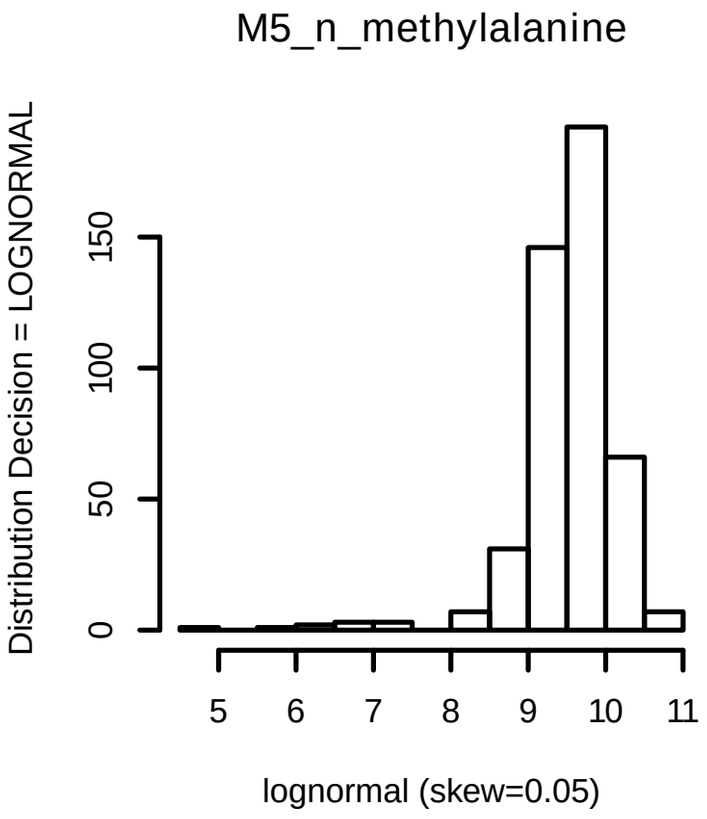

M5_inositol_myo_
Distribution Decision = NORMAL
0
50
100
150
0
10000
30000
normal (skew=0.035)

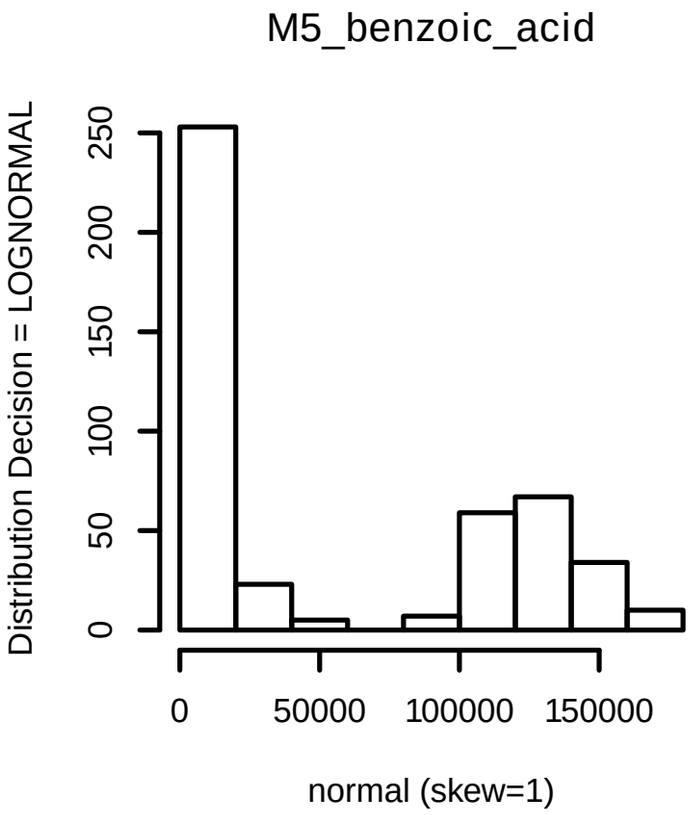

M5_inositol_myo_
Distribution Decision = NORMAL
0
50
100
150
200
250
5
6
7
8
9
10
11
lognormal (skew=Inf)

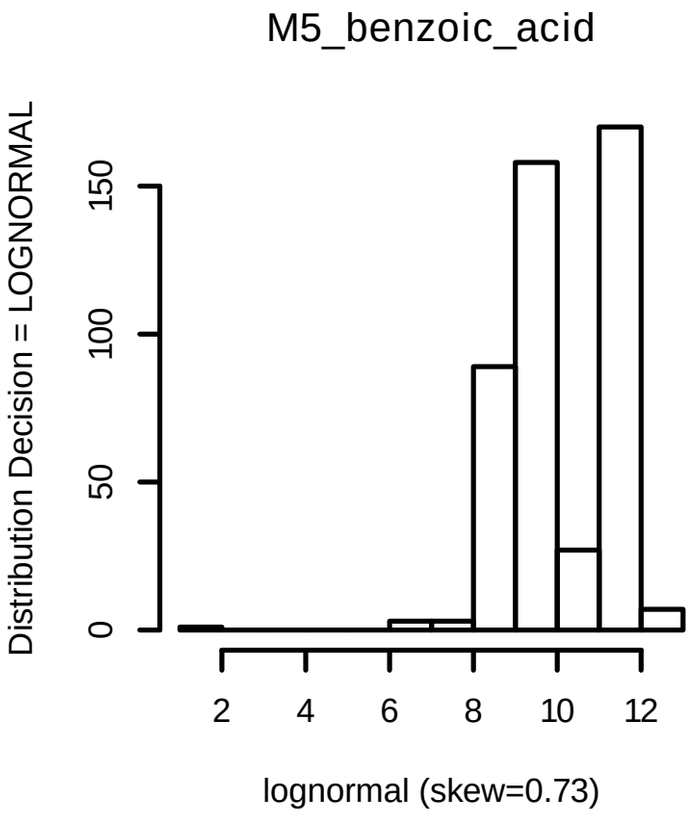

M5_glutamic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
20000
40000
60000
normal (skew=0.26)

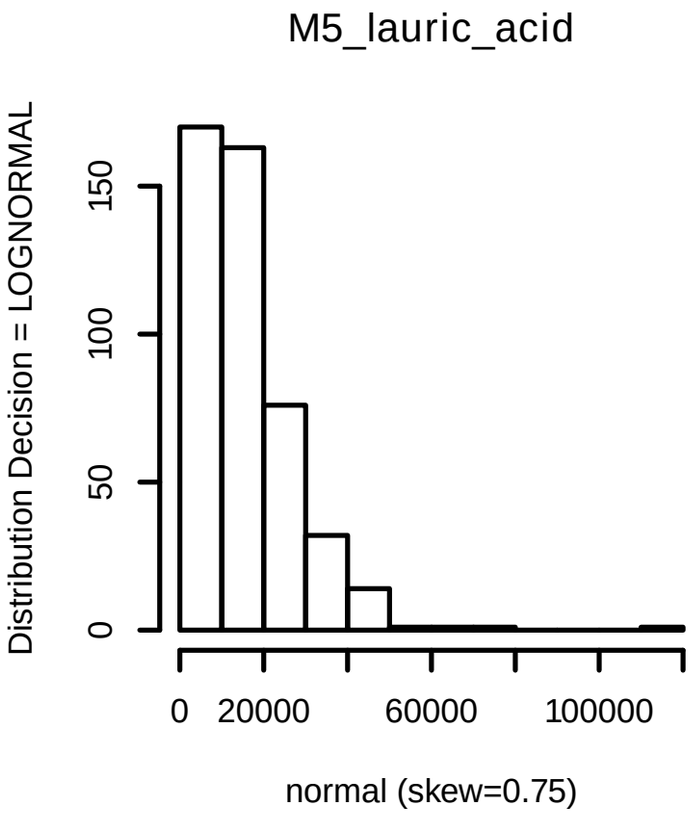

M5_glutamic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
8.0
9.0
10.0
11.0
lognormal (skew=0.026)

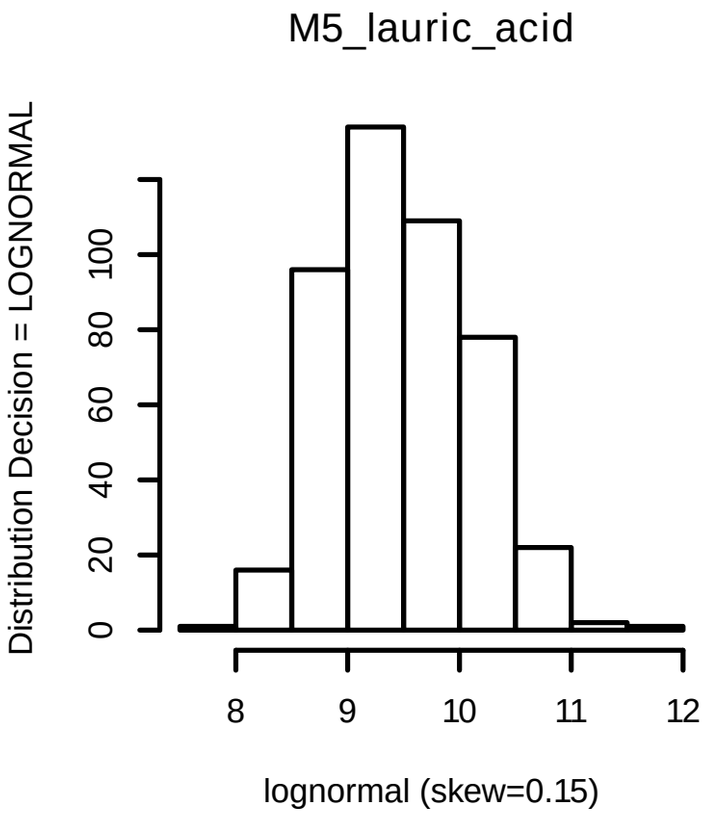

M5_n_methylalanine
Distribution Decision = LOGNORMAL
0
50
100
150
0
10000
30000
50000
normal (skew=0.081)

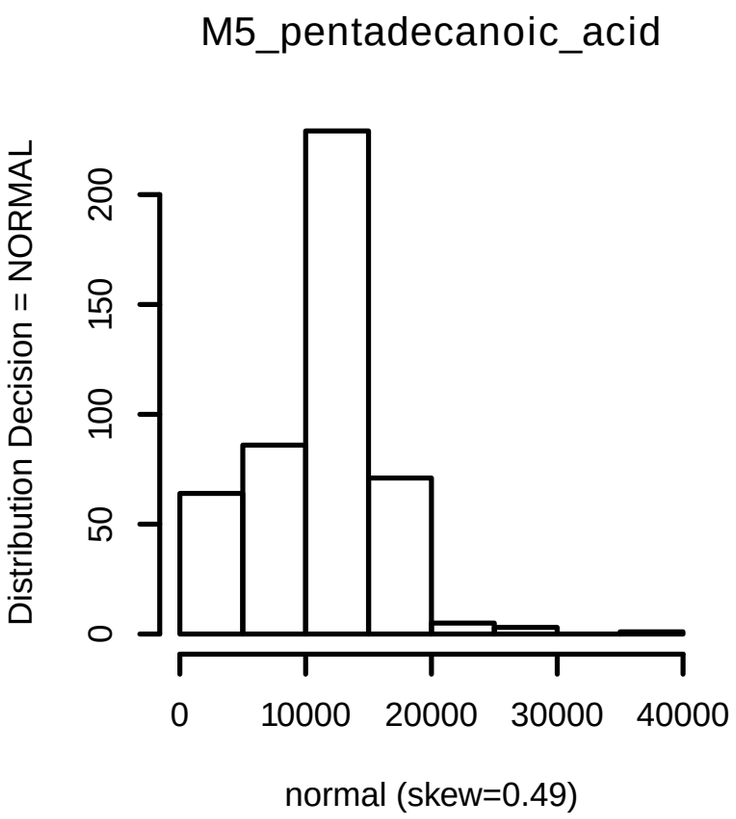

M5_n_methylalanine
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
10
11
lognormal (skew=0.05)

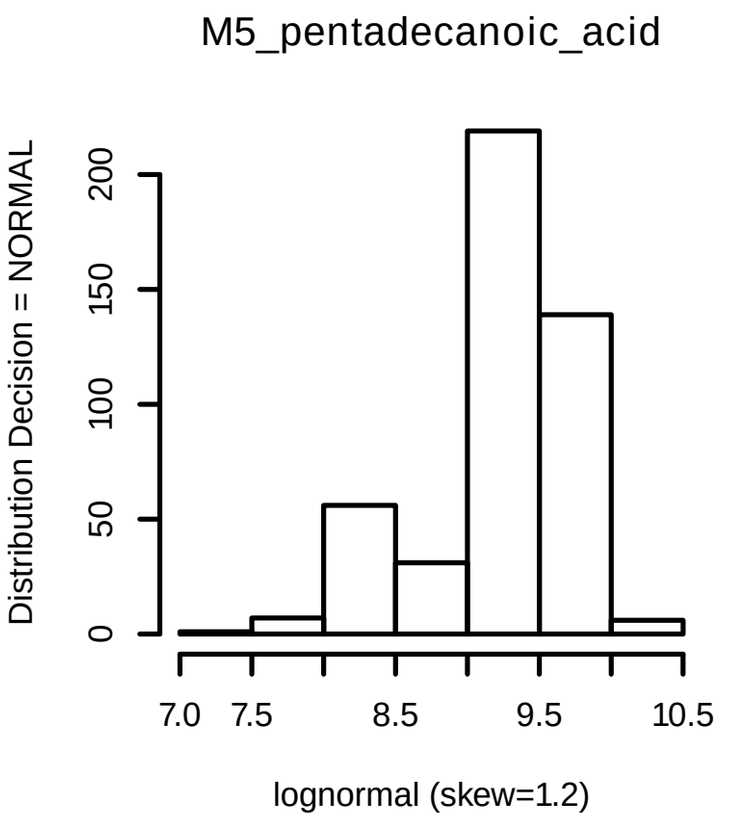

M5_benzoic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
50000
100000
150000
normal (skew=1)

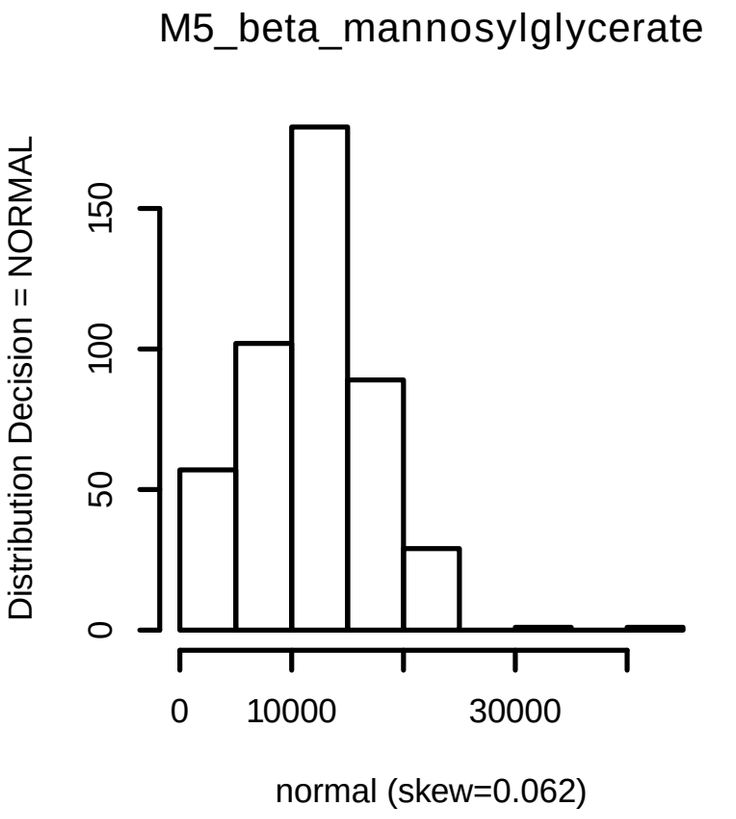

M5_benzoic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
12
lognormal (skew=0.73)

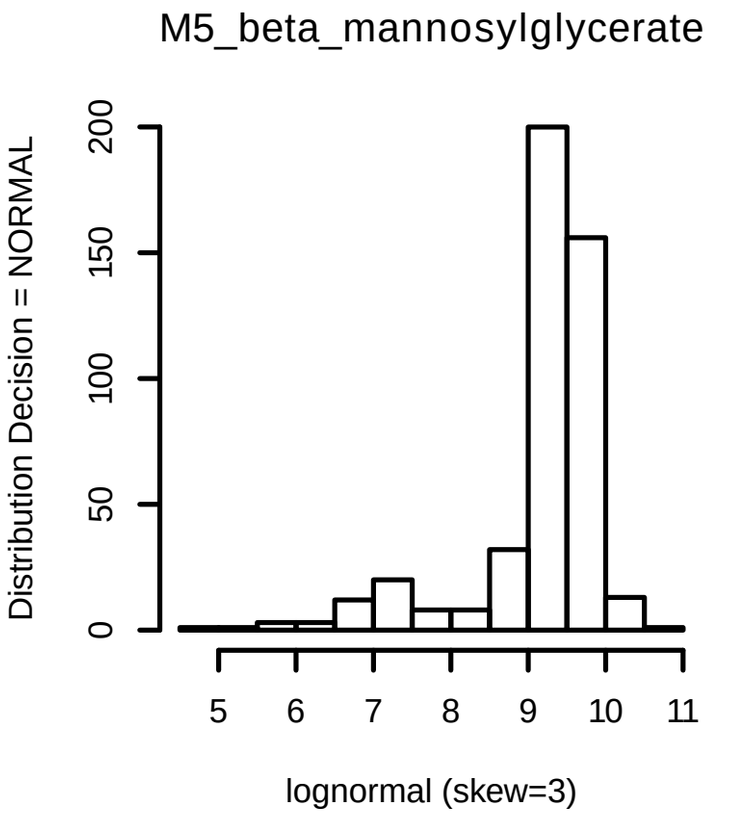

M5_lauric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
20000
60000
100000
normal (skew=0.75)

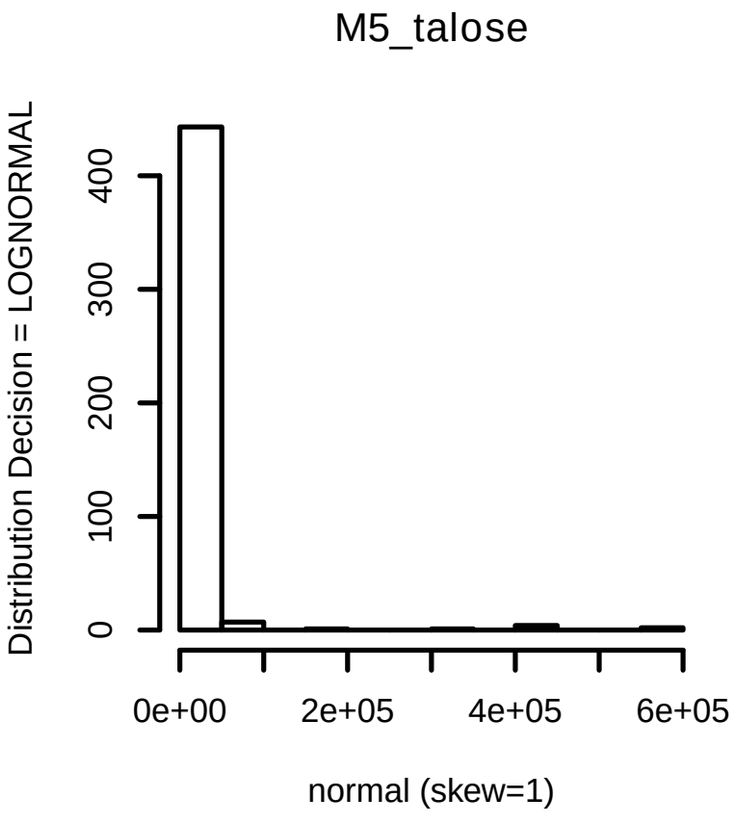

M5_lauric_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
8
9
10
11
12
lognormal (skew=0.15)

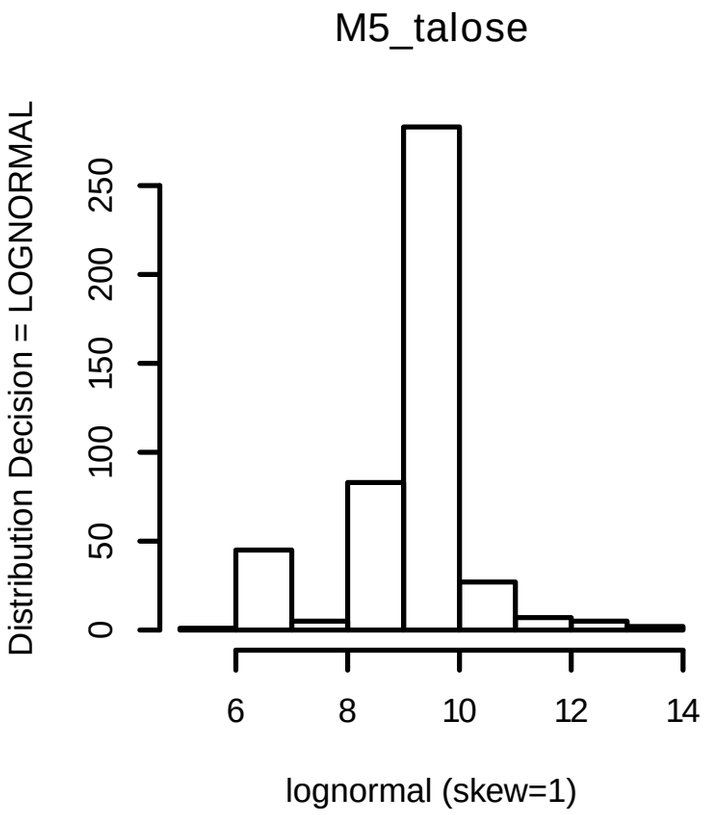

M5_pentadecanoic_acid
Distribution Decision = NORMAL
0
50
100
150
200
0
10000
20000
30000
40000
normal (skew=0.49)

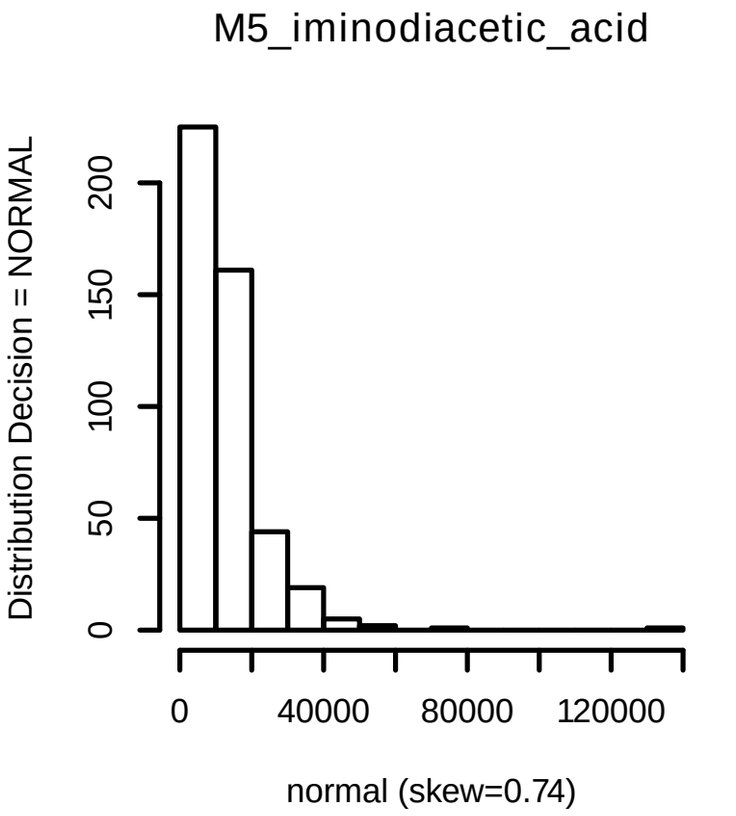

M5_pentadecanoic_acid
Distribution Decision = NORMAL
0
50
100
150
200
7.0
7.5
8.5
9.5
10.5
lognormal (skew=1.2)

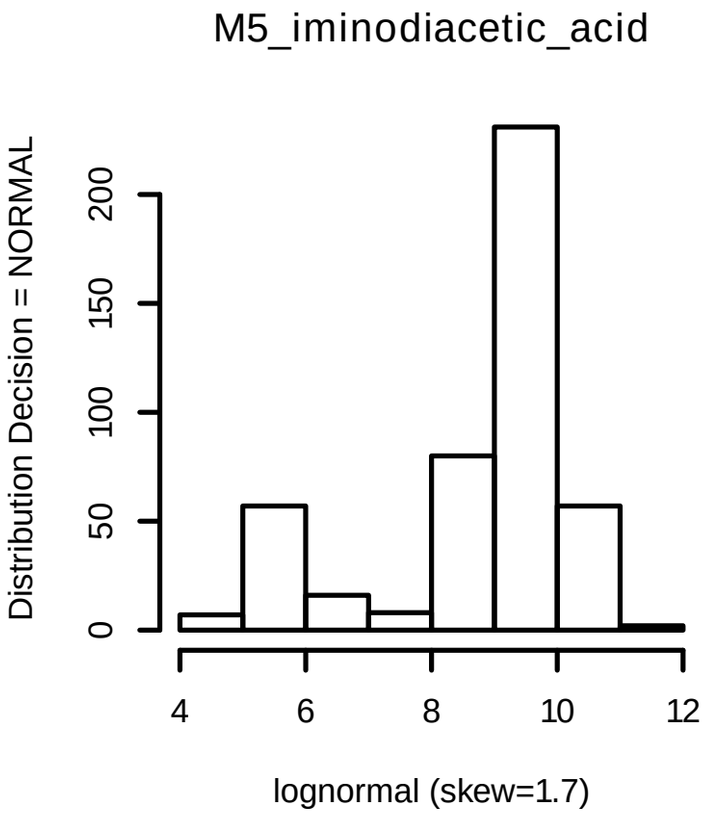

M5_beta_mannosylglycerate
Distribution Decision = NORMAL
0
50
100
150
0
10000
30000
normal (skew=0.062)

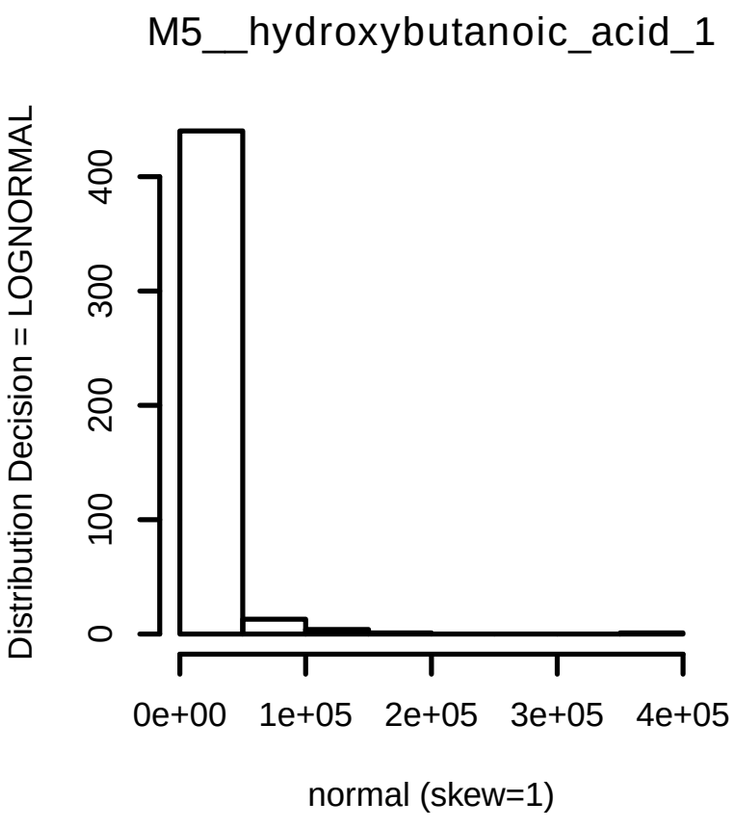

M5_beta_mannosylglycerate
Distribution Decision = NORMAL
0
50
100
150
200
5
6
7
8
9
10
11
lognormal (skew=3)

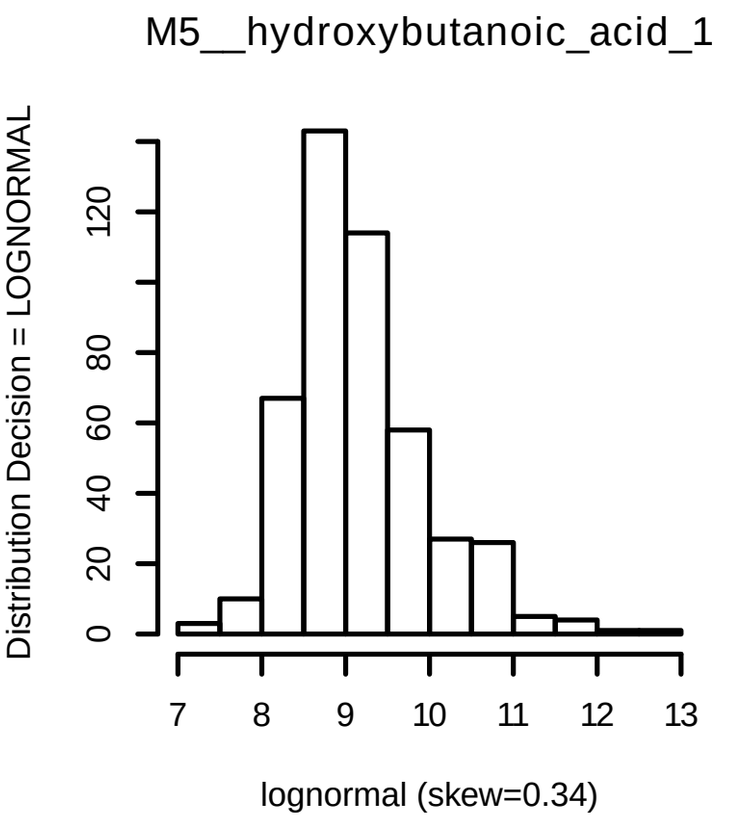

M5_talose
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
2e+05
4e+05
6e+05
normal (skew=1)

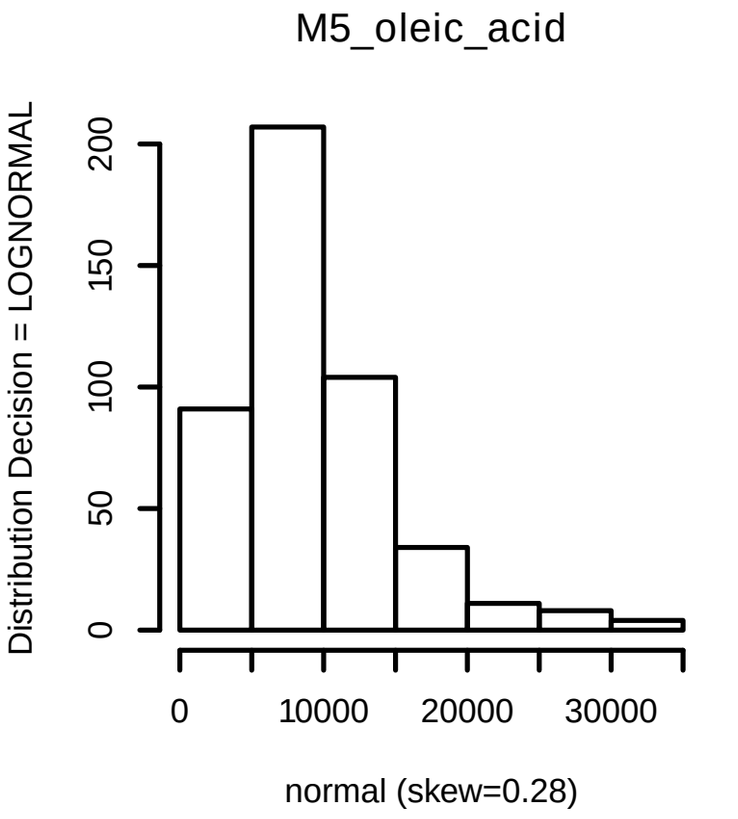

M5_talose
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
6
8
10
12
14
lognormal (skew=1)

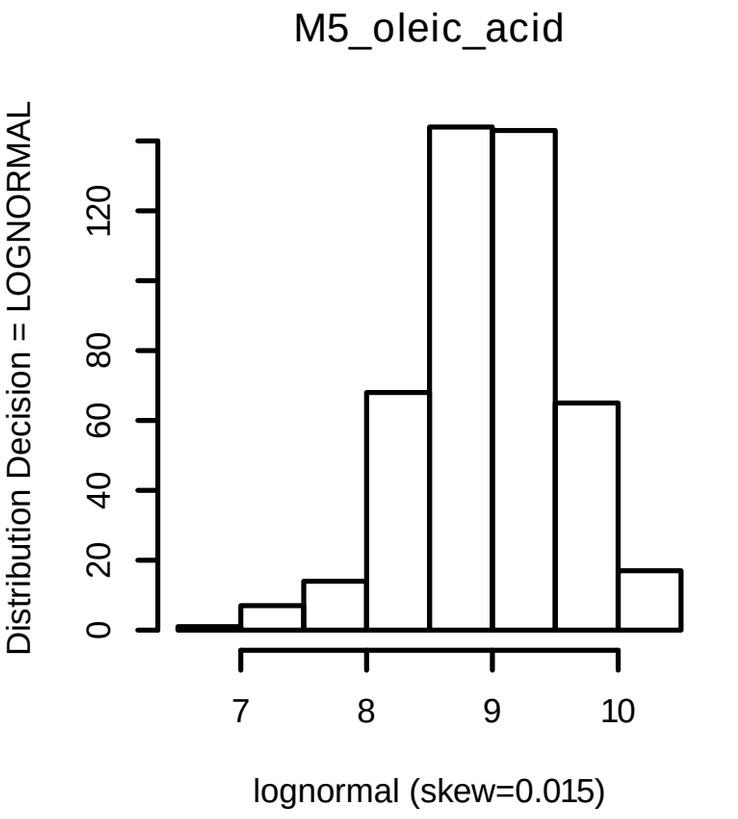

M5_iminodiacetic_acid
Distribution Decision = NORMAL
0
50
100
150
200
0
40000
80000
120000
normal (skew=0.74)

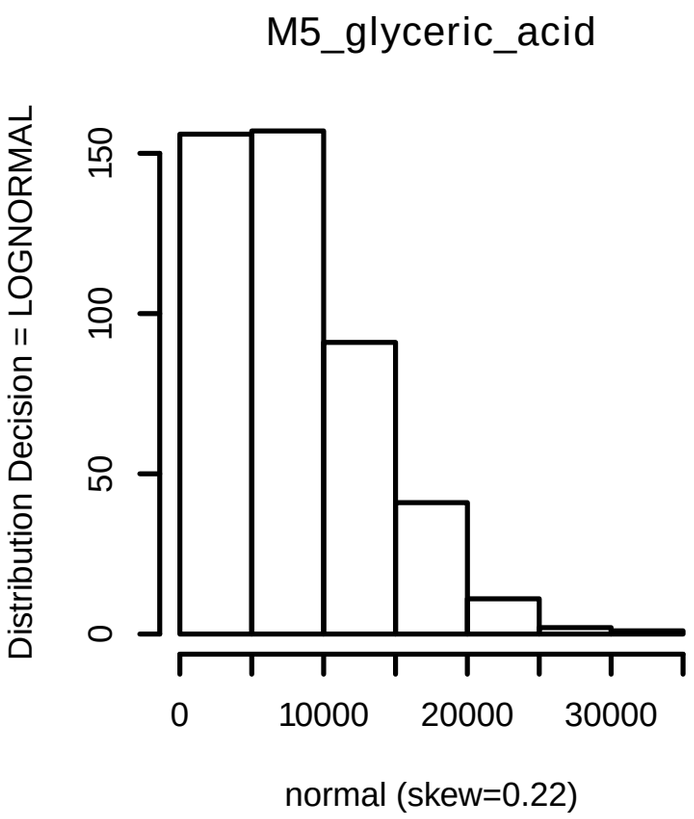

M5_iminodiacetic_acid
Distribution Decision = NORMAL
0
50
100
150
200
4
6
8
10
12
lognormal (skew=1.7)

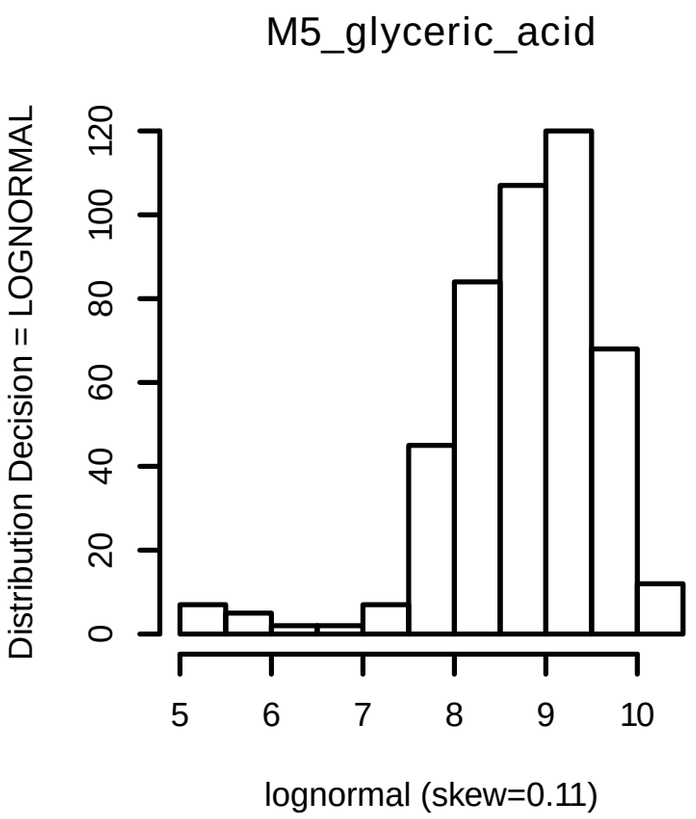

M5__hydroxybutanoic_acid_1
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
1e+05
2e+05
3e+05
4e+05
normal (skew=1)

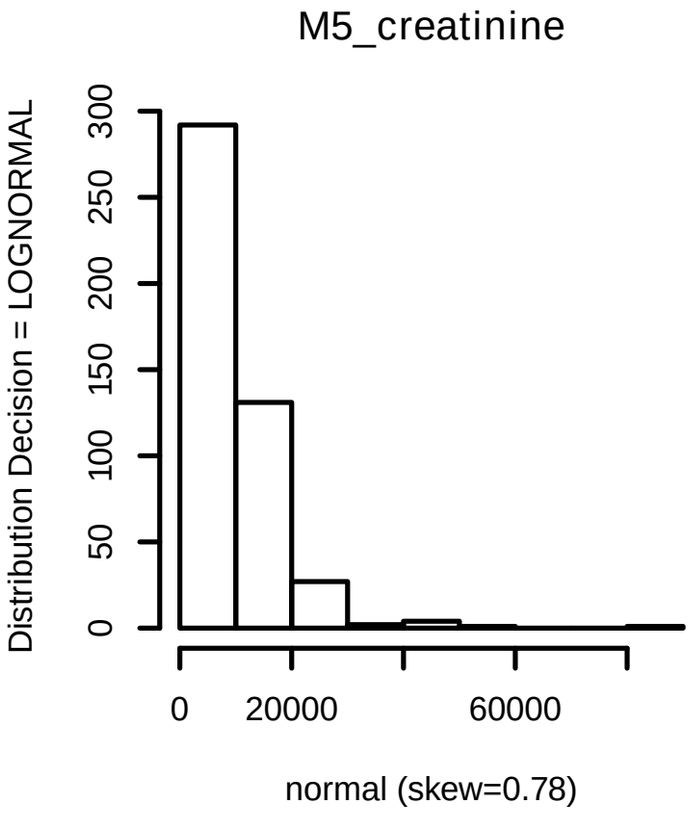

M5__hydroxybutanoic_acid_1
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
7
8
9
10
11
12
13
lognormal (skew=0.34)

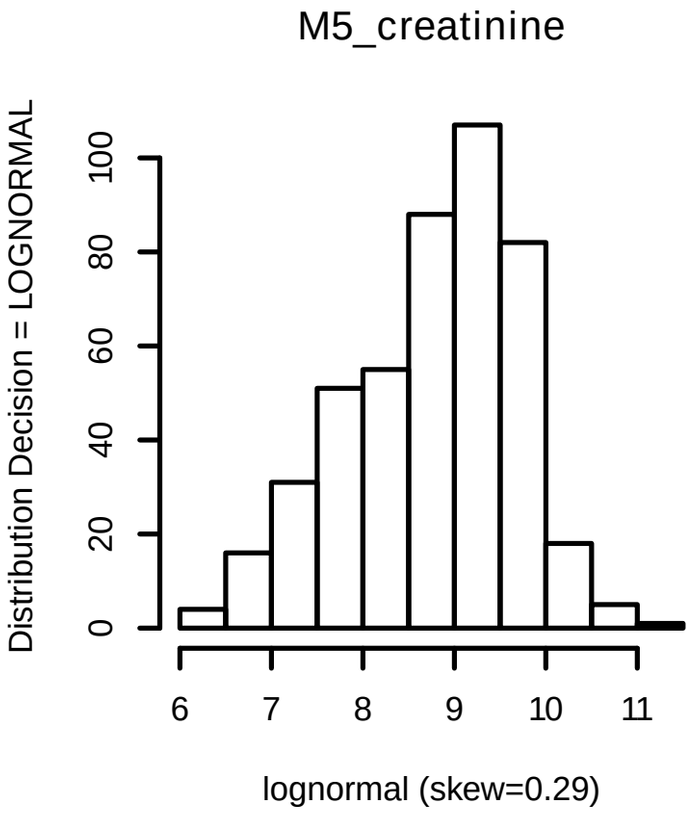

M5_oleic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
10000
20000
30000
normal (skew=0.28)

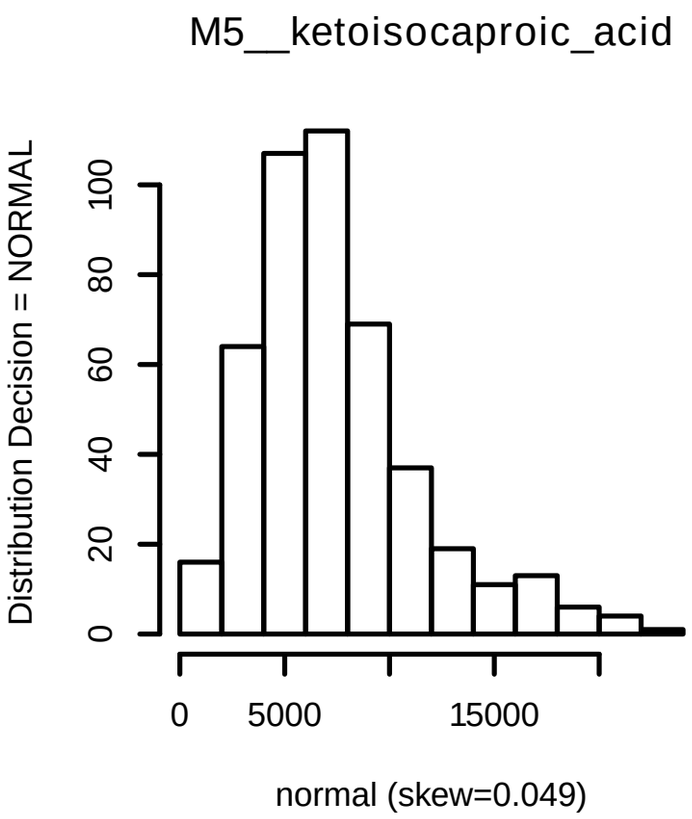

M5_oleic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
7
8
9
10
lognormal (skew=0.015)

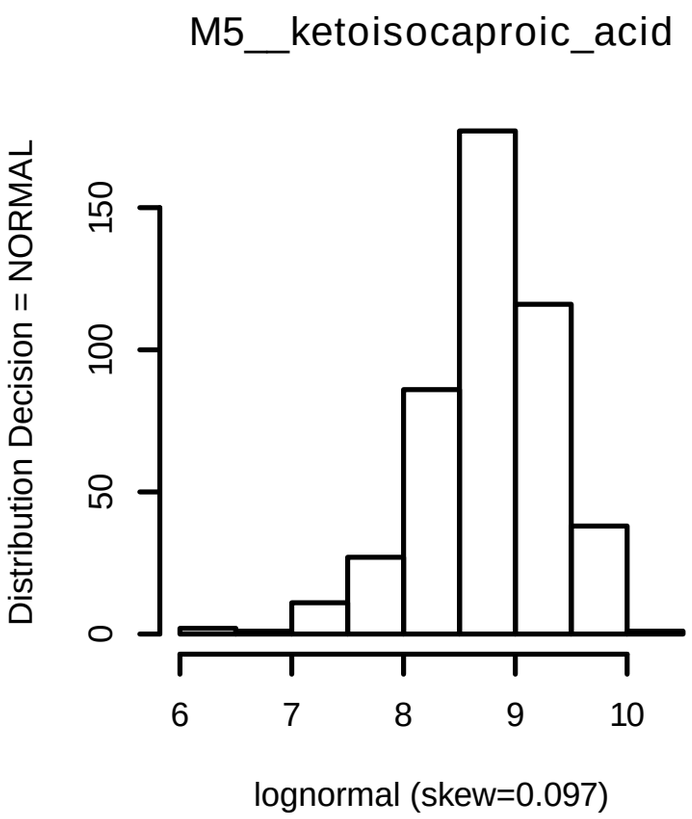

M5_glyceric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
10000
20000
30000
normal (skew=0.22)

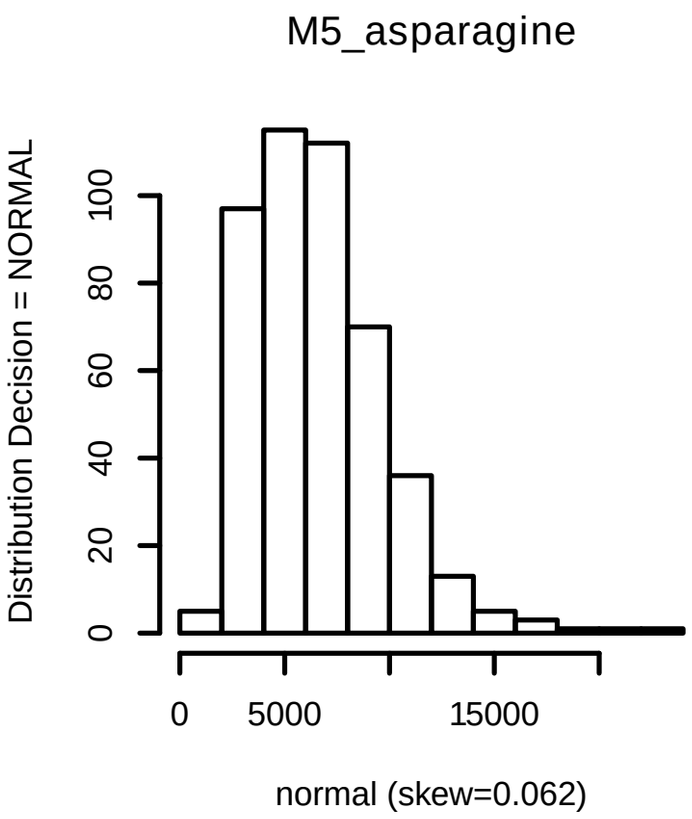

M5_glyceric_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
5
6
7
8
9
10
lognormal (skew=0.11)

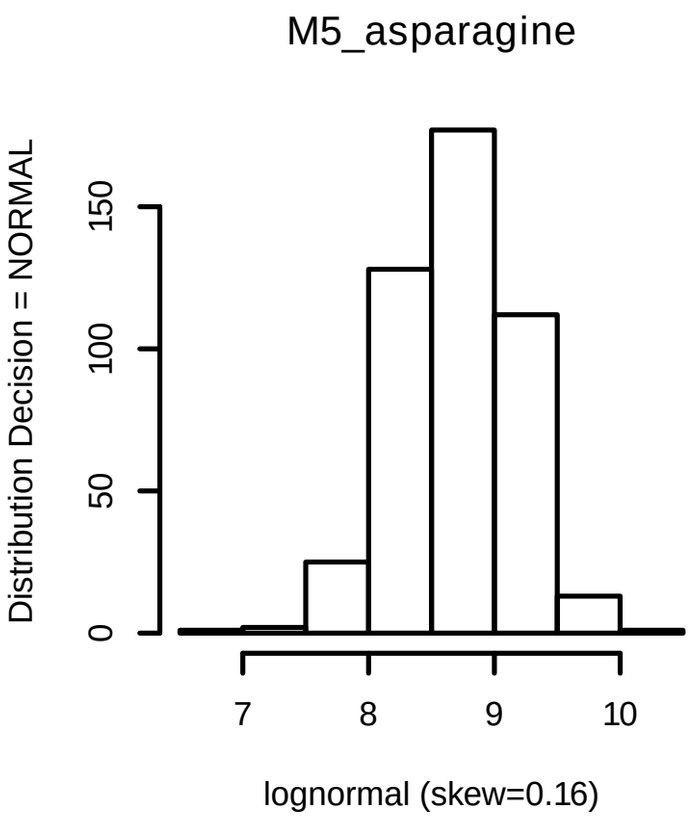

M5_creatinine
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
20000
60000
normal (skew=0.78)

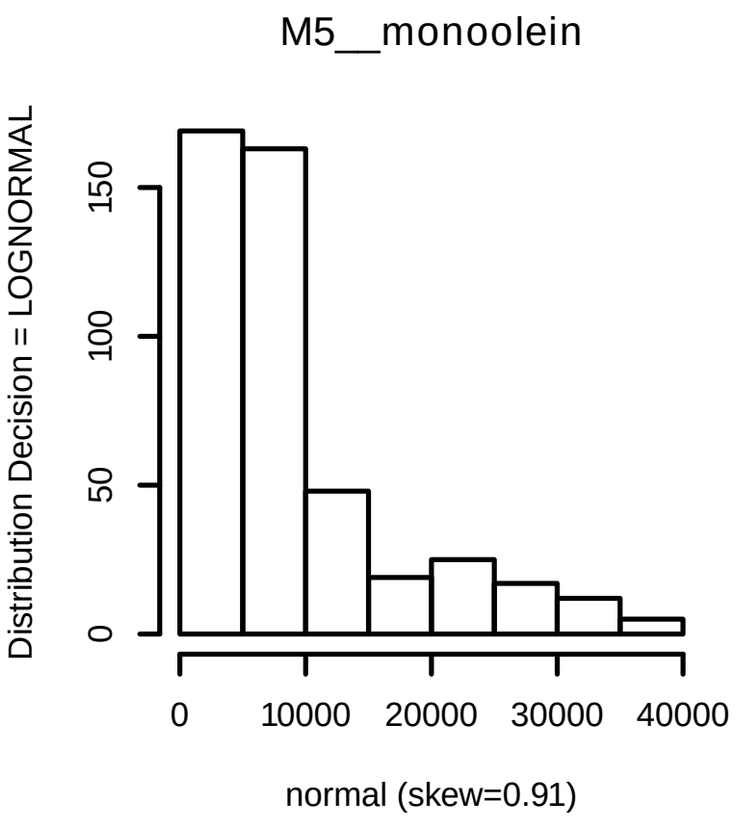

M5_creatinine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
11
lognormal (skew=0.29)

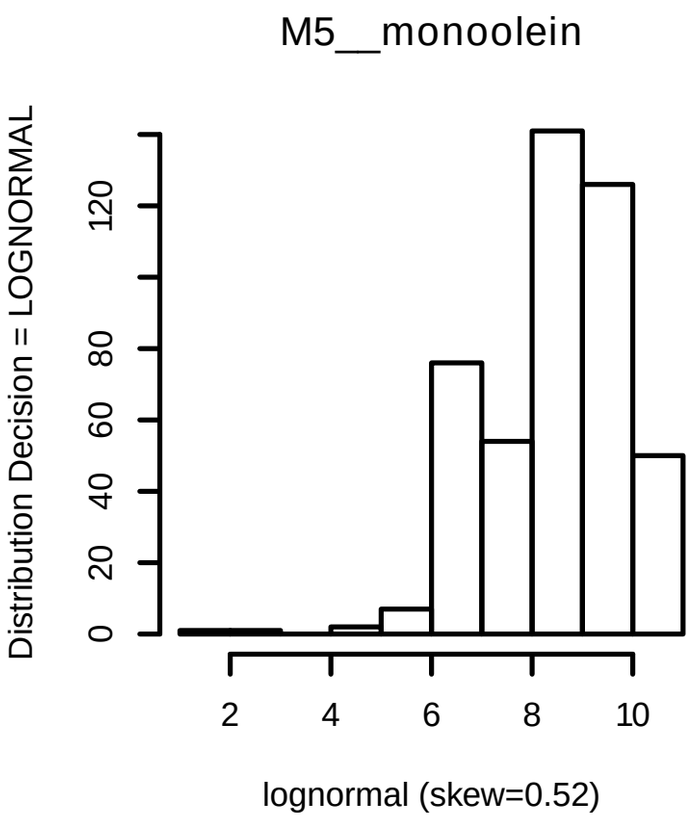

M5__ketoisocaproic_acid
Distribution Decision = NORMAL
0
20
40
60
80
100
0
5000
15000
normal (skew=0.049)

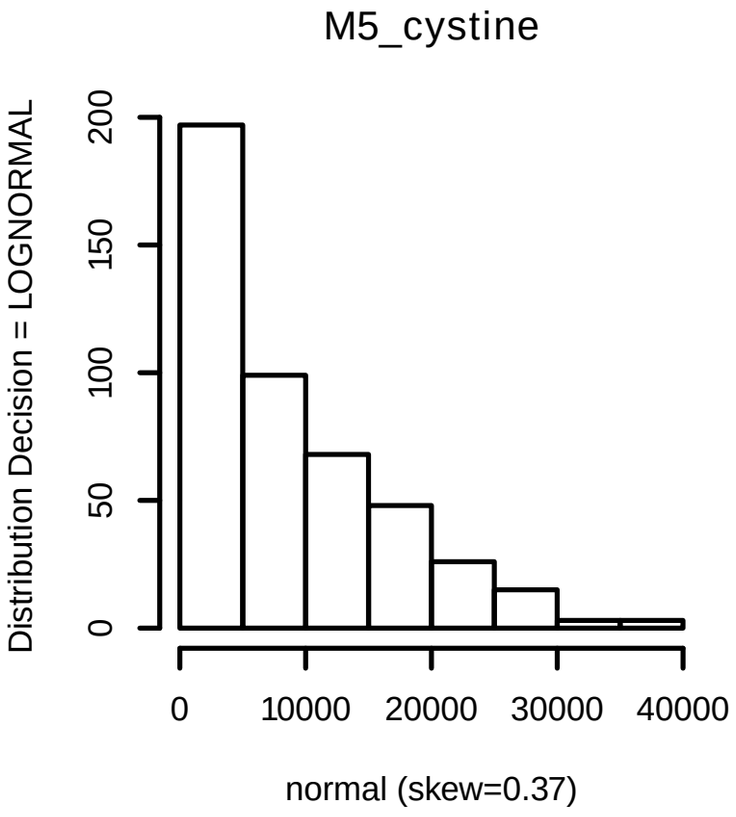

M5__ketoisocaproic_acid
Distribution Decision = NORMAL
0
50
100
150
6
7
8
9
10
lognormal (skew=0.097)

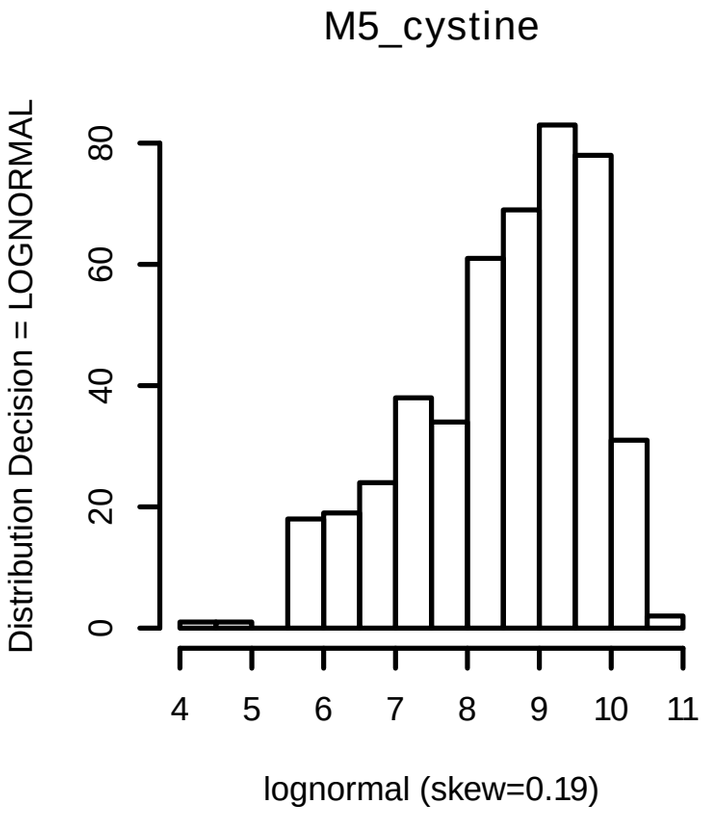

M5_asparagine
Distribution Decision = NORMAL
0
20
40
60
80
100
0
5000
15000
normal (skew=0.062)

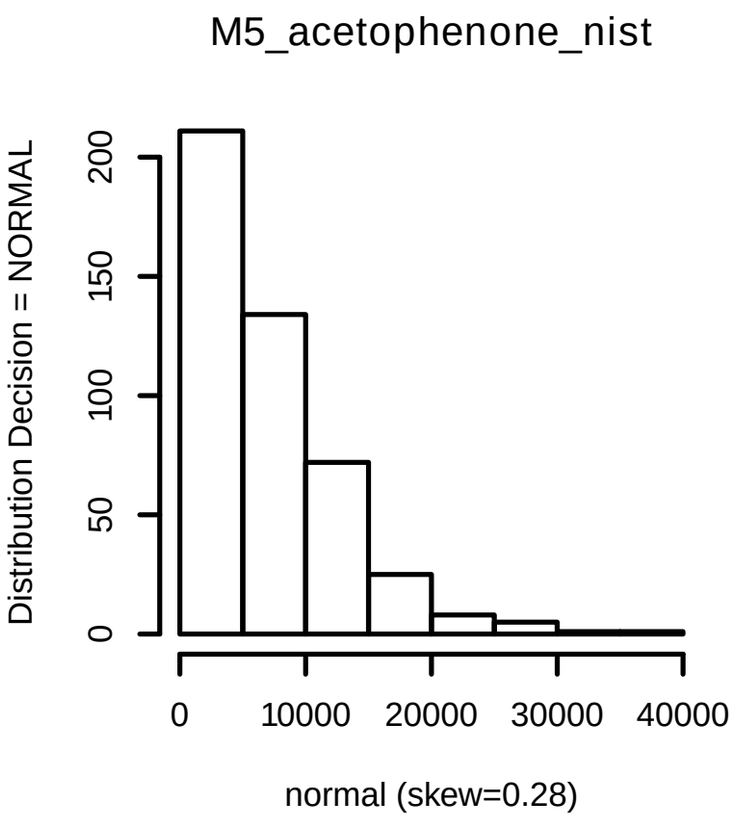

M5_asparagine
Distribution Decision = NORMAL
0
50
100
150
7
8
9
10
lognormal (skew=0.16)

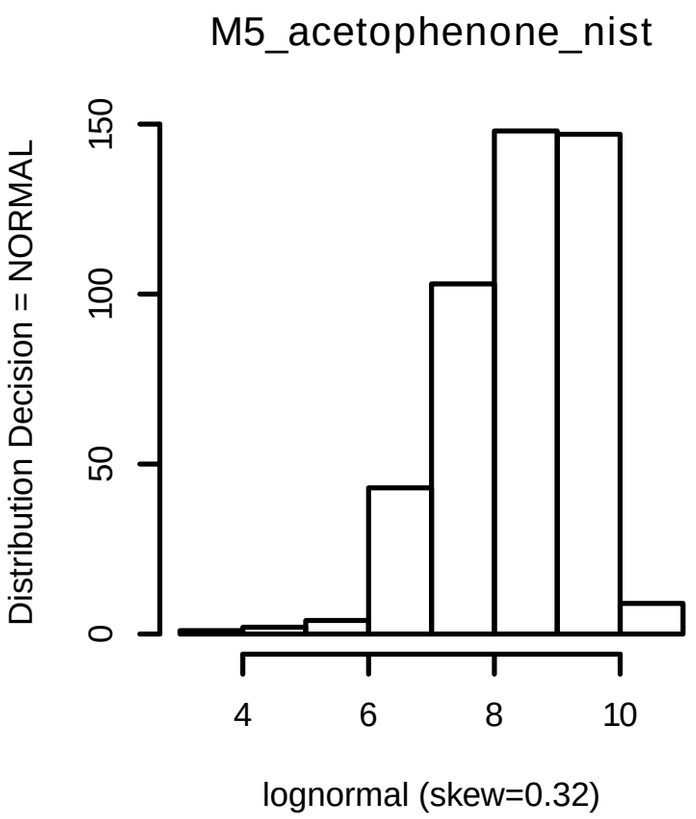

M5__monoolein
Distribution Decision = LOGNORMAL
0
50
100
150
0
10000
20000
30000
40000
normal (skew=0.91)

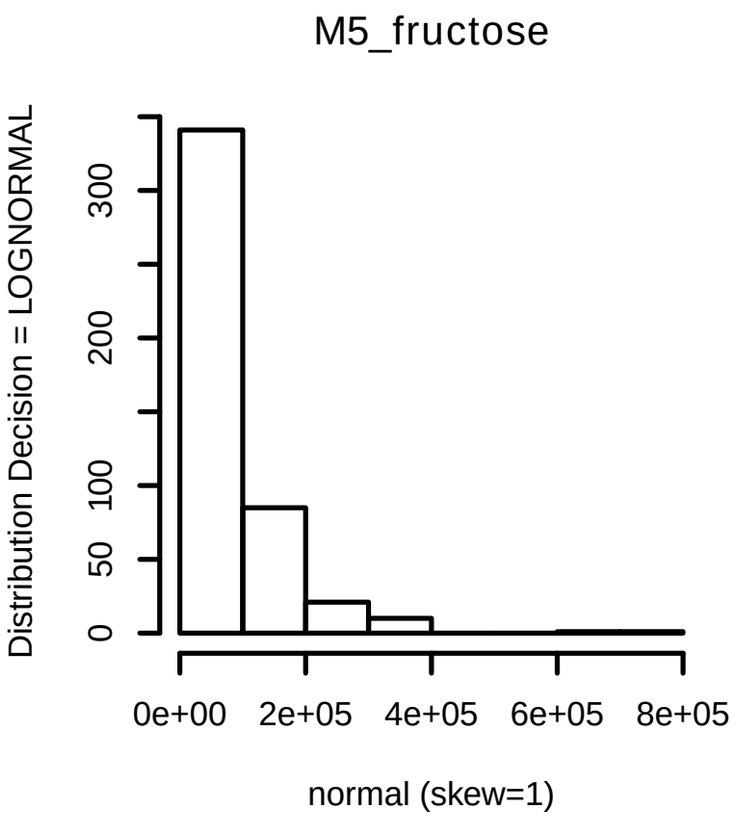

M5__monoolein
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
2
4
6
8
10
lognormal (skew=0.52)

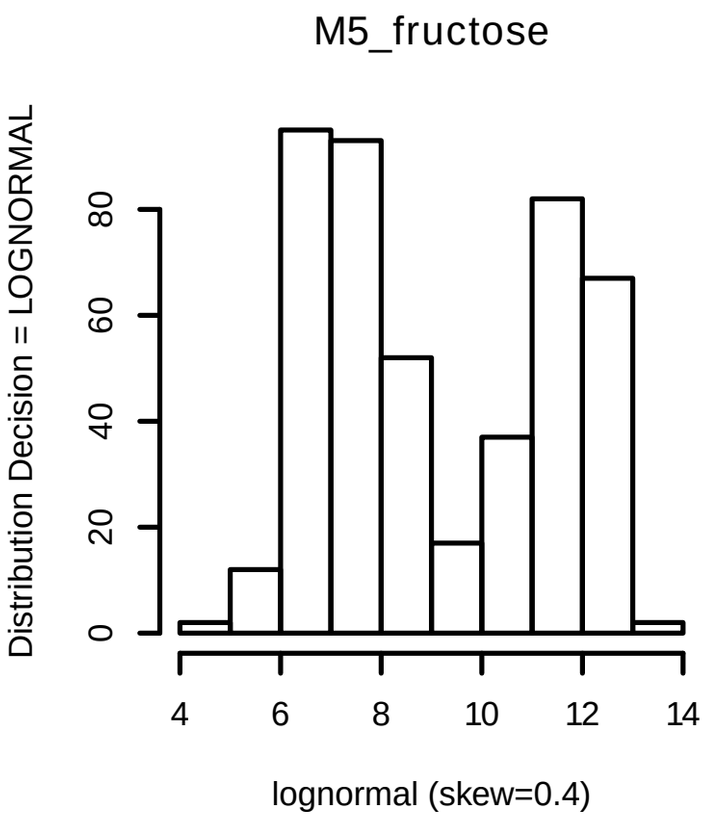

M5_cystine
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
10000
20000
30000
40000
normal (skew=0.37)

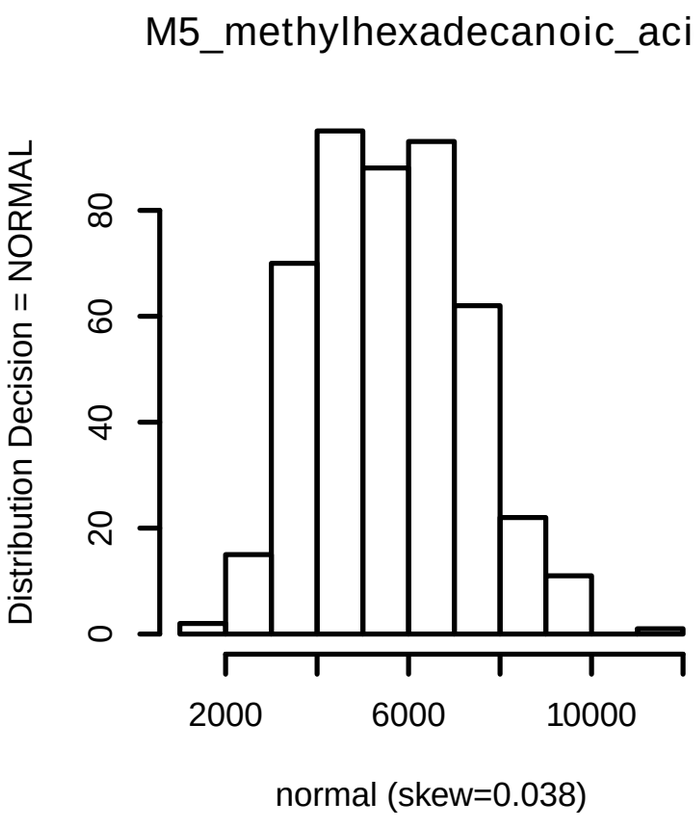

M5_cystine
Distribution Decision = LOGNORMAL
0
20
40
60
80
4
5
6
7
8
9
10
11
lognormal (skew=0.19)

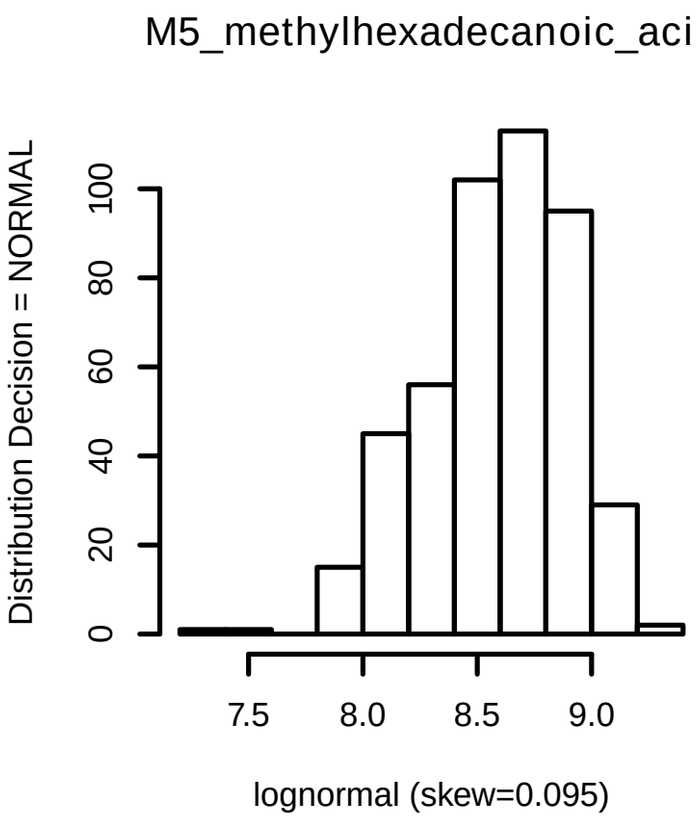

M5_acetophenone_nist
Distribution Decision = NORMAL
0
50
100
150
200
0
10000
20000
30000
40000
normal (skew=0.28)

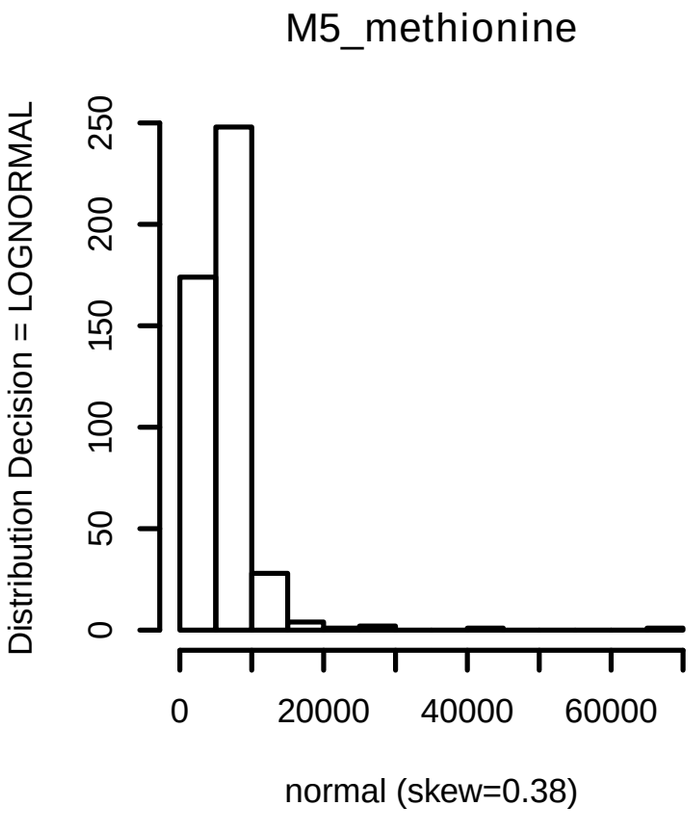

M5_acetophenone_nist
Distribution Decision = NORMAL
0
50
100
150
4
6
8
10
lognormal (skew=0.32)

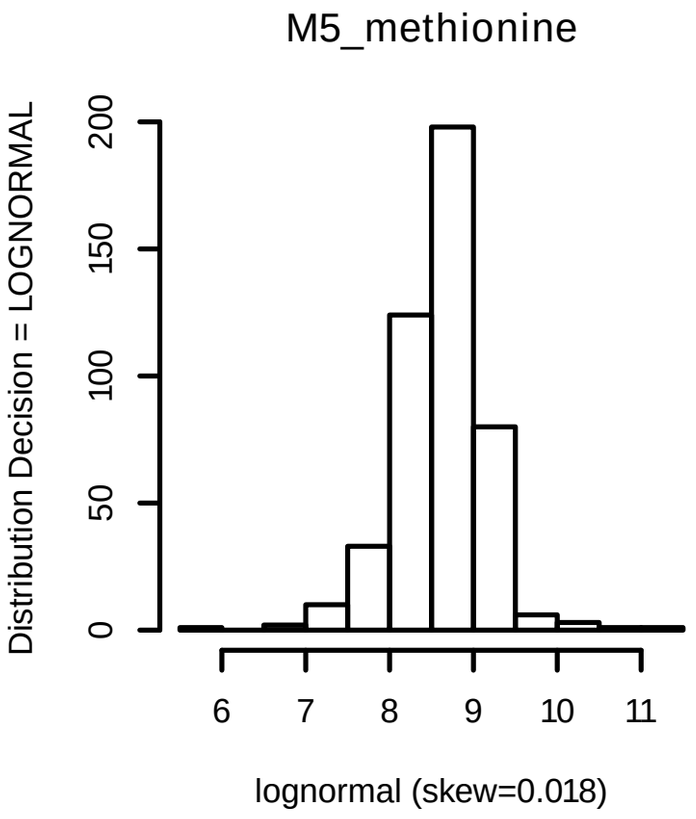

M5_fructose
Distribution Decision = LOGNORMAL
0
50
100
200
300
0e+00
2e+05
4e+05
6e+05
8e+05
normal (skew=1)

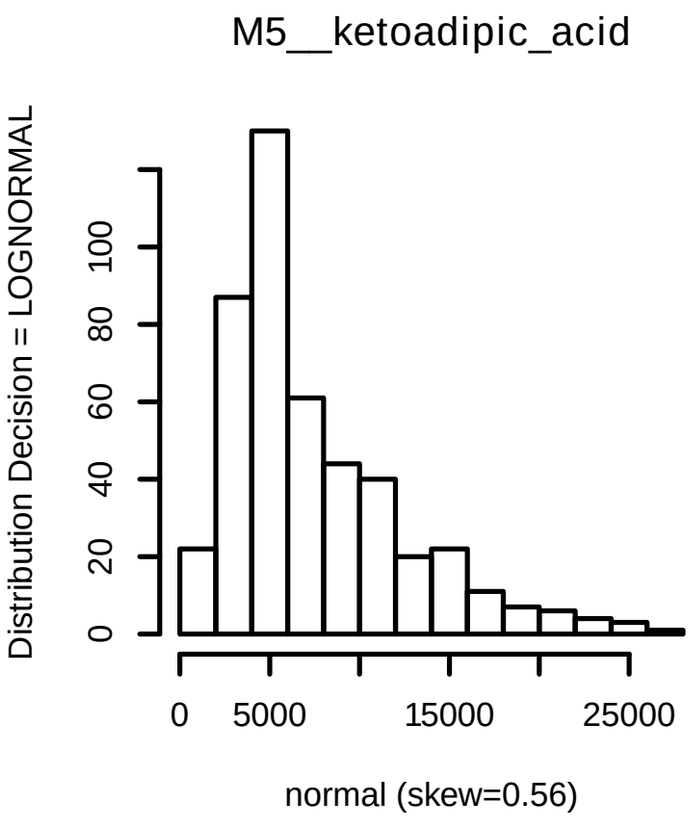

M5_fructose
Distribution Decision = LOGNORMAL
0
20
40
60
80
4
6
8
10
12
14
lognormal (skew=0.4)

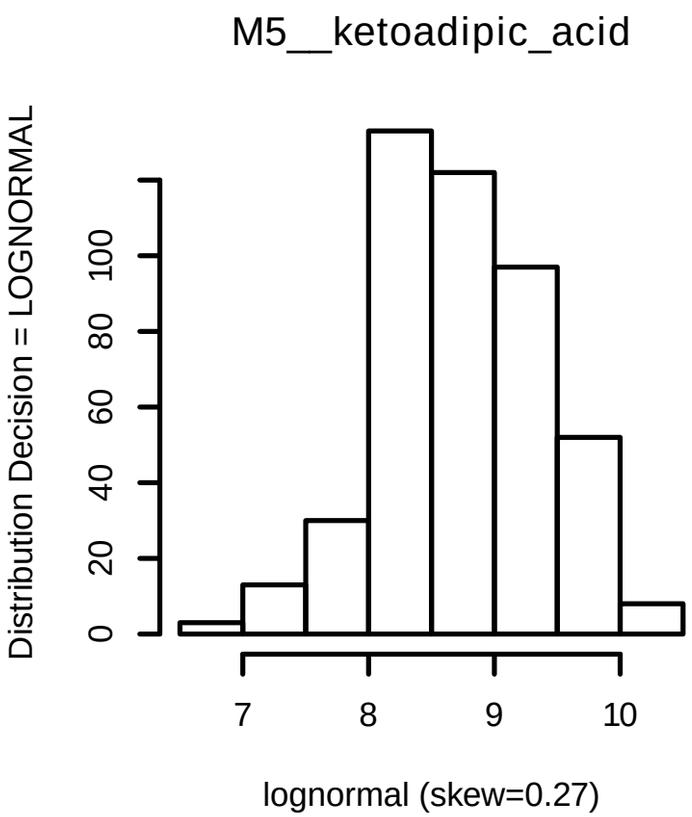

M5_methylhexadecanoic_acid
Distribution Decision = NORMAL
0
20
40
60
80
2000
6000
10000
normal (skew=0.038)

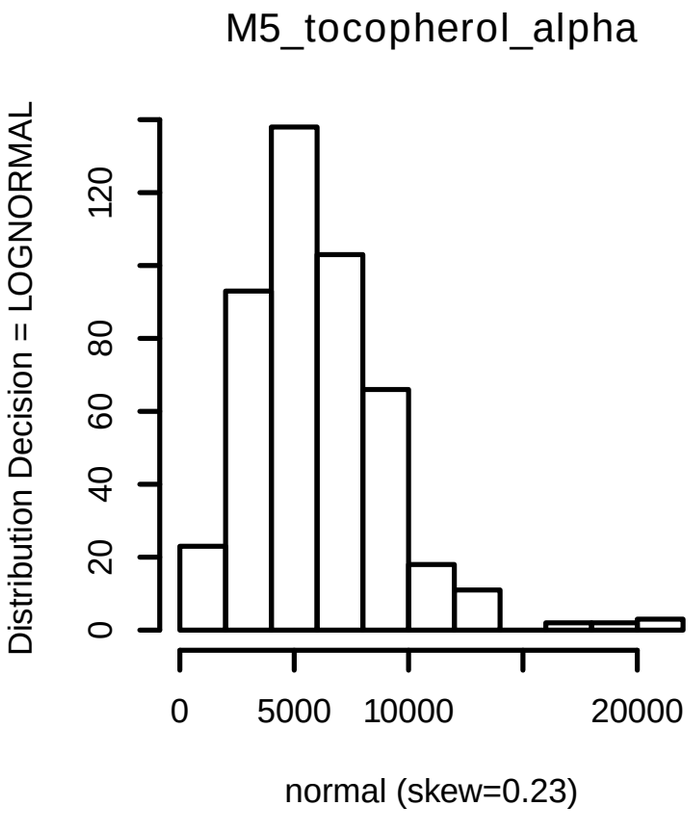

M5_methylhexadecanoic_acid
Distribution Decision = NORMAL
0
20
40
60
80
100
7.5
8.0
8.5
9.0
lognormal (skew=0.095)

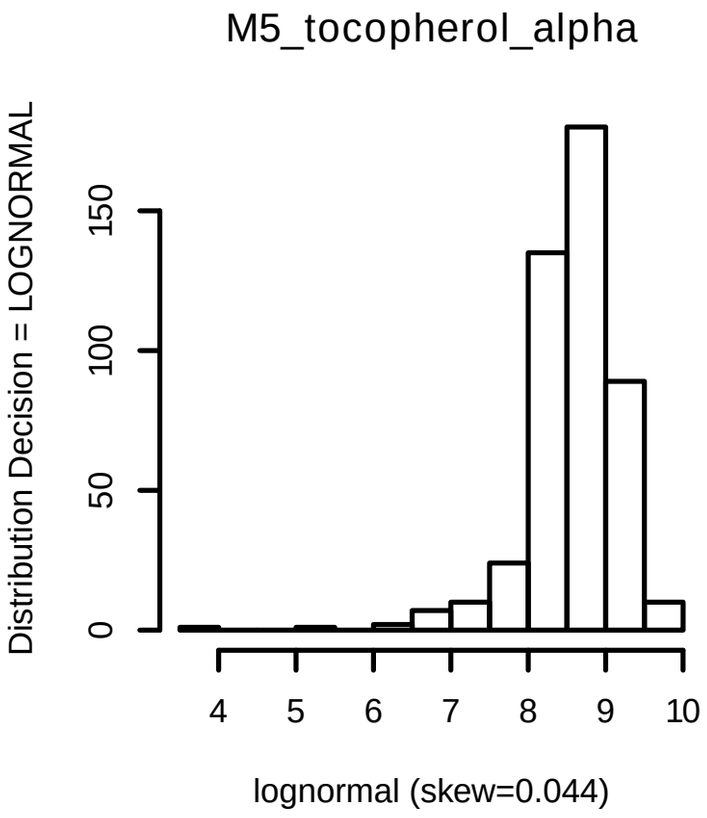

M5_methionine
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
20000
40000
60000
normal (skew=0.38)

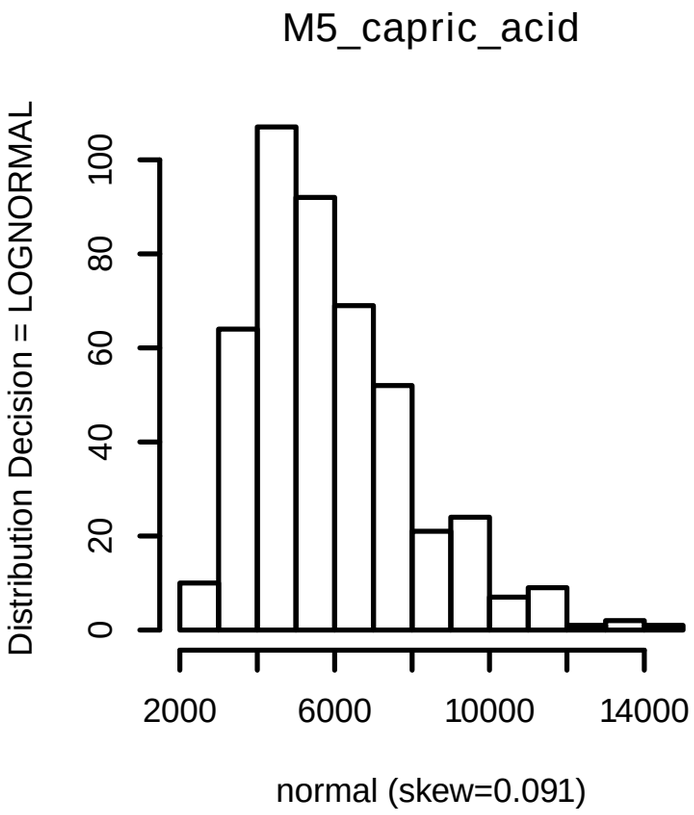

M5_methionine
Distribution Decision = LOGNORMAL
0
50
100
150
200
6
7
8
9
10
11
lognormal (skew=0.018)

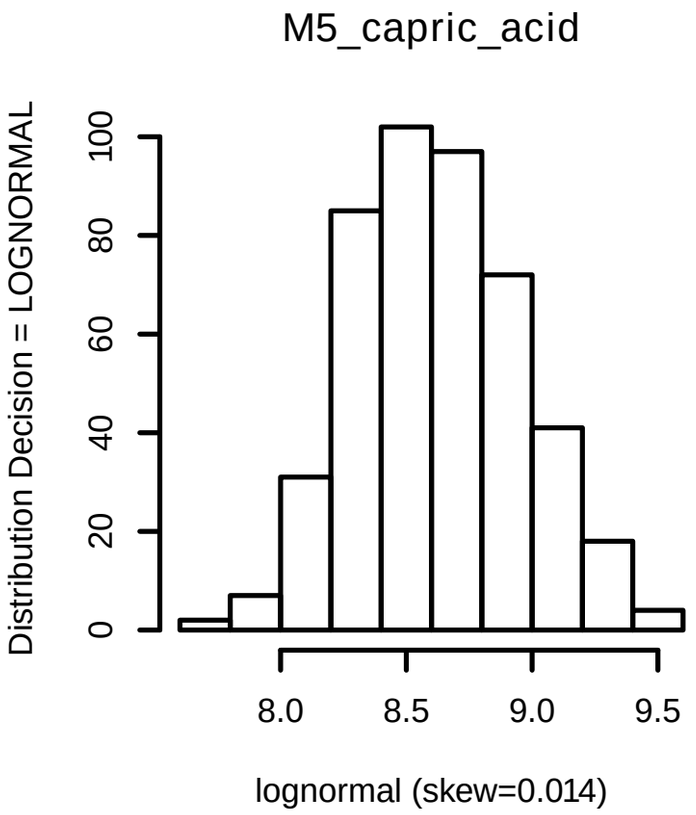

M5__ketoadipic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
5000
15000
25000
normal (skew=0.56)

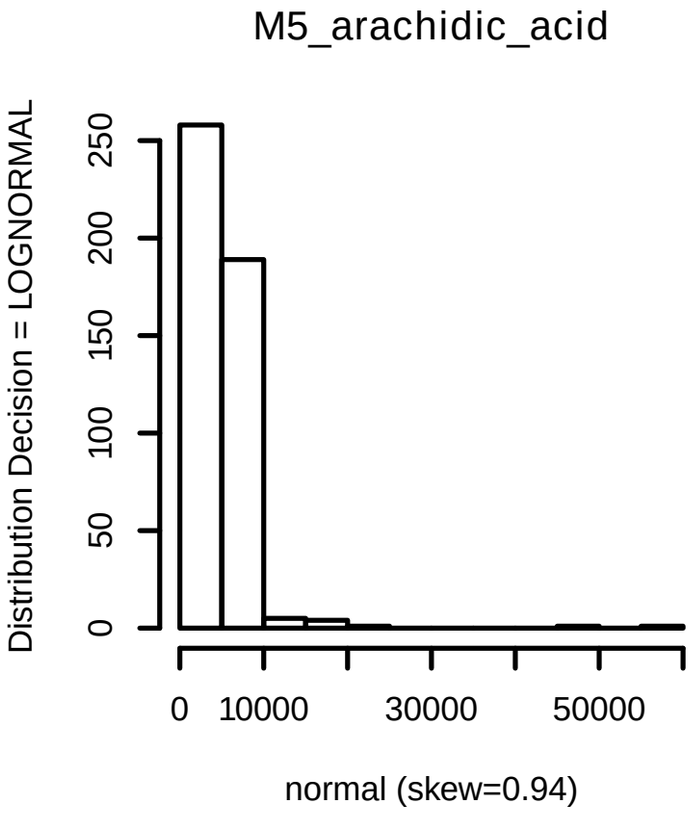

M5__ketoadipic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
7
8
9
10
lognormal (skew=0.27)

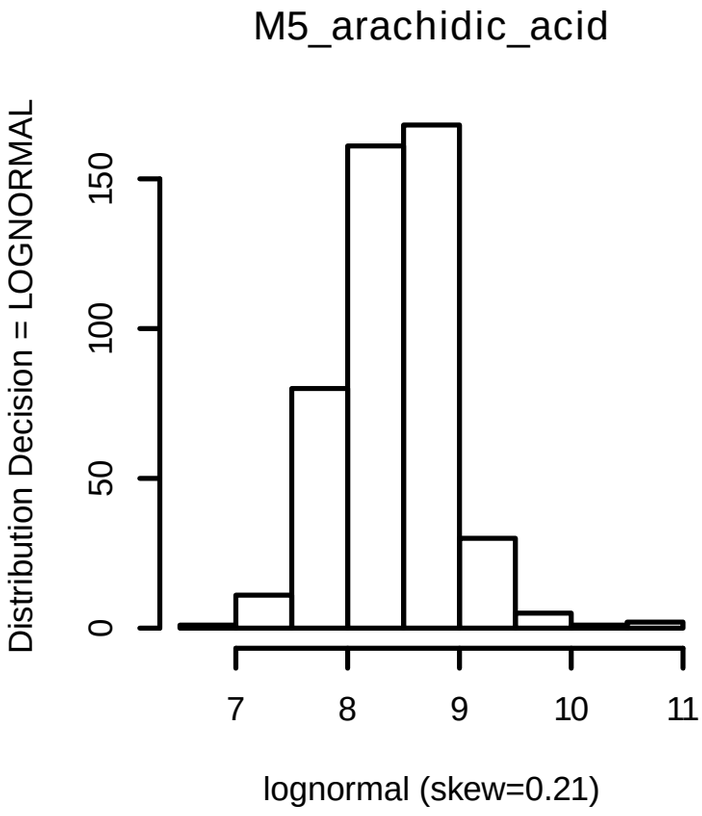

M5_tocopherol_alpha
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
5000
10000
20000
normal (skew=0.23)

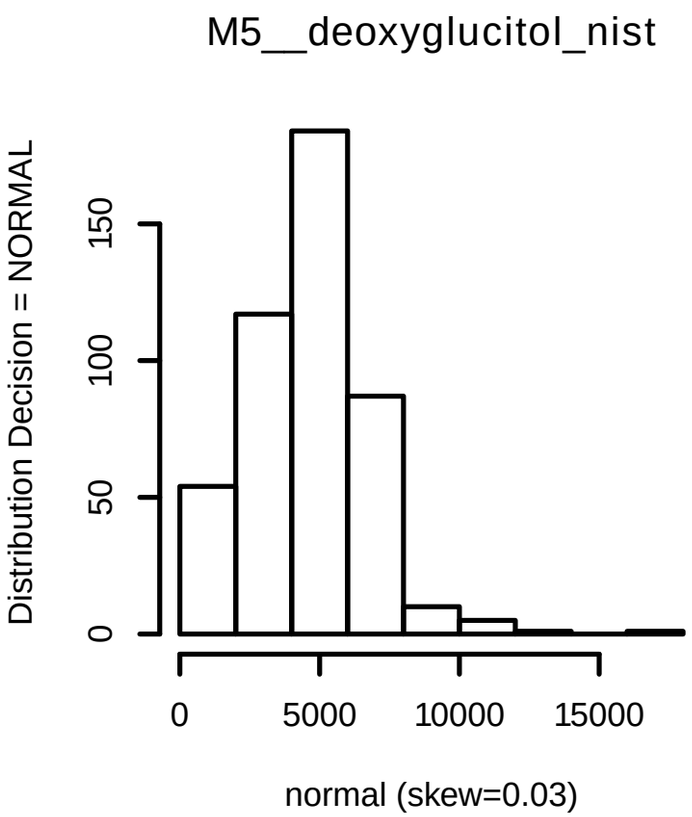

M5_tocopherol_alpha
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
9
10
lognormal (skew=0.044)

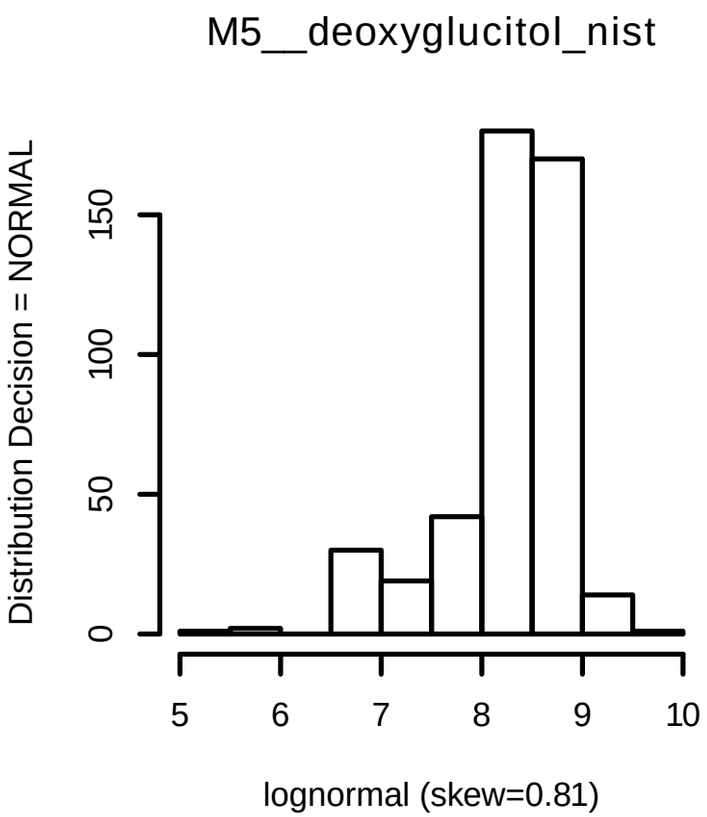

M5_capric_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
2000
6000
10000
14000
normal (skew=0.091)

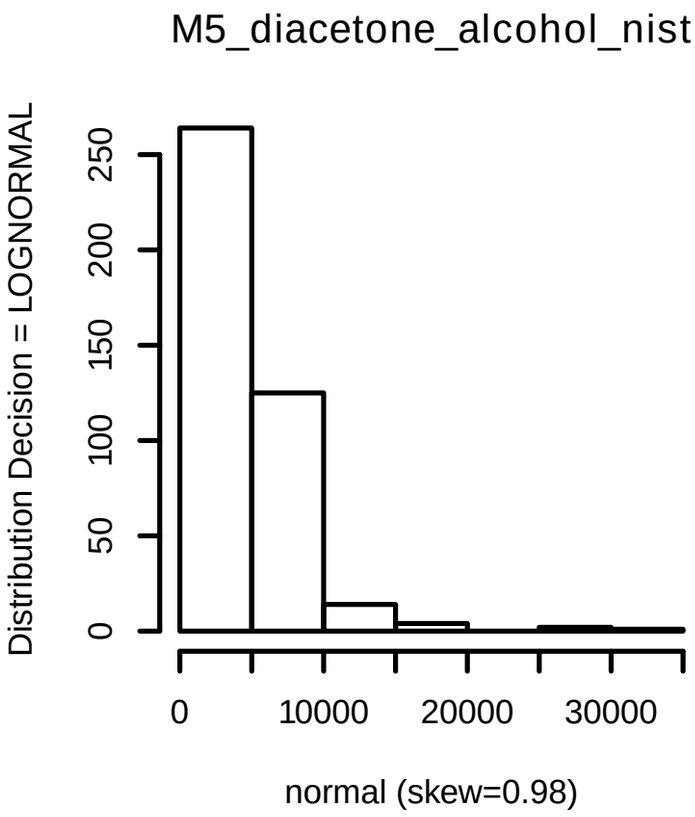

M5_capric_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
8.0
8.5
9.0
9.5
lognormal (skew=0.014)

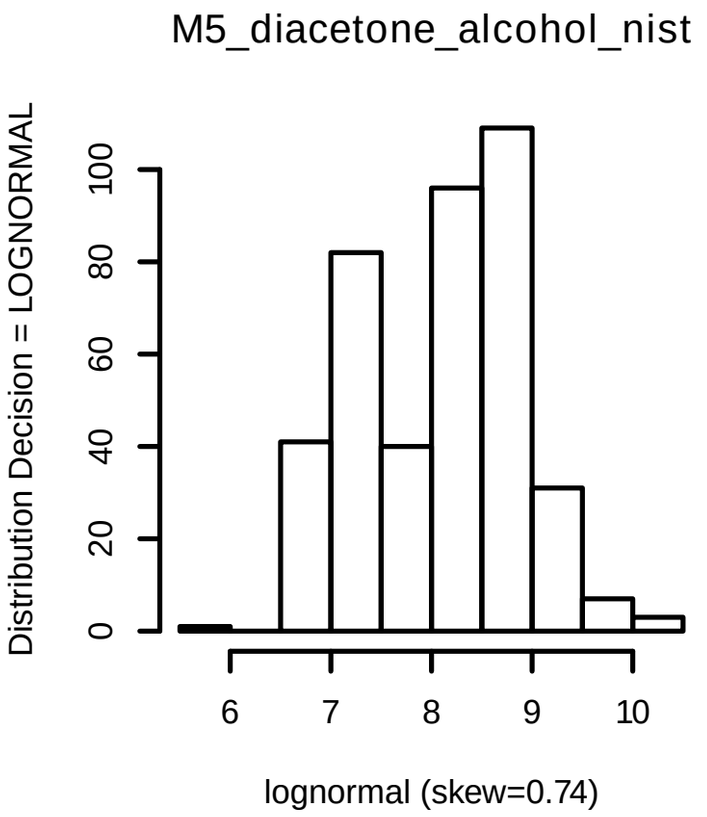

M5_arachidic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
10000
30000
50000
normal (skew=0.94)

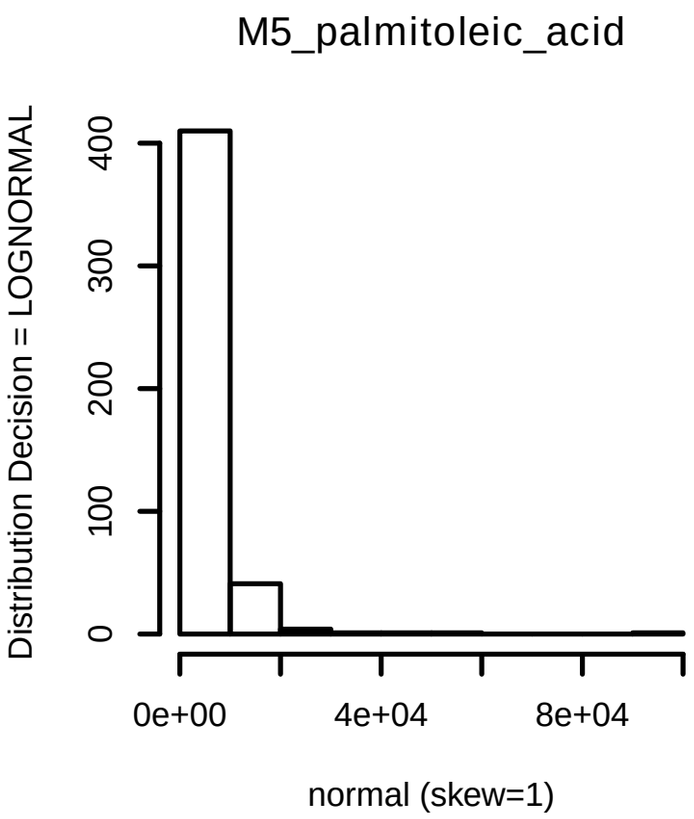

M5_arachidic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
7
8
9
10
11
lognormal (skew=0.21)

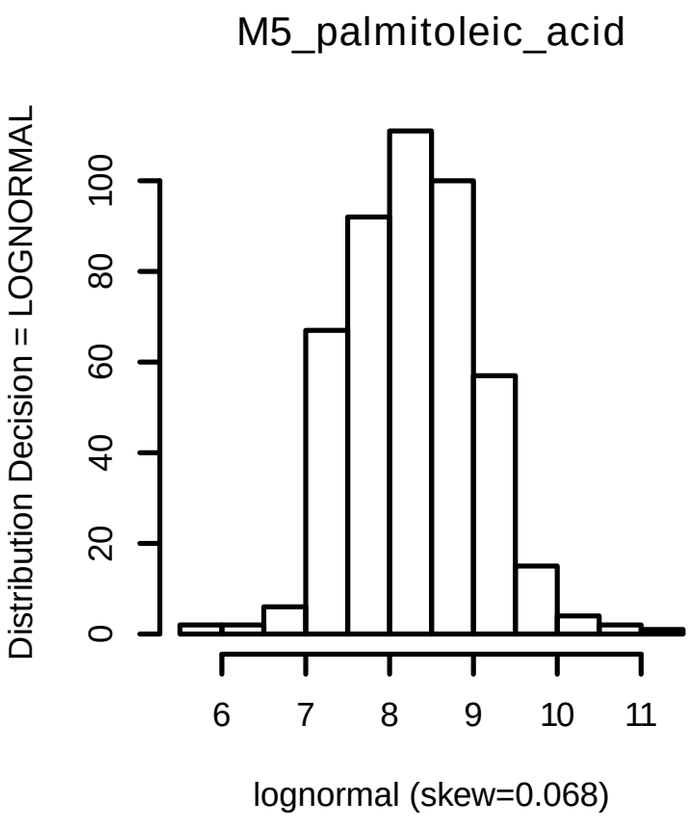

M5__deoxyglucitol_nist
Distribution Decision = NORMAL
0
50
100
150
0
5000
10000
15000
normal (skew=0.03)

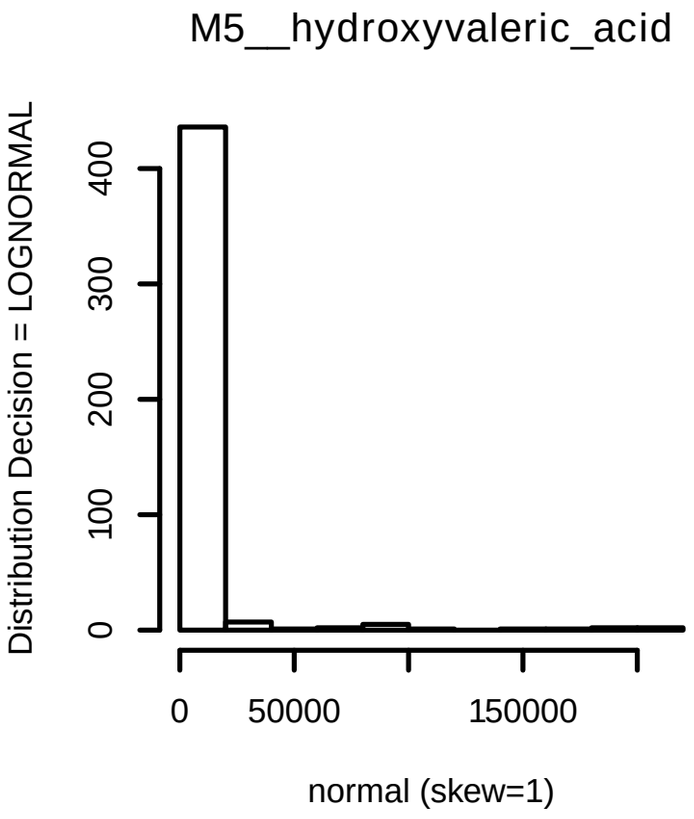

M5__deoxyglucitol_nist
Distribution Decision = NORMAL
0
50
100
150
5
6
7
8
9
10
lognormal (skew=0.81)

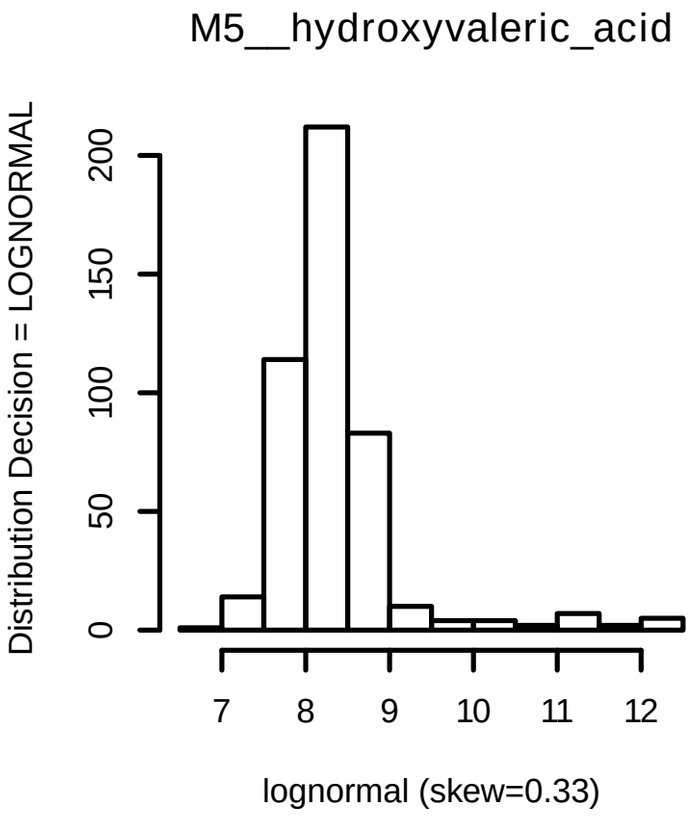

M5_diacetone_alcohol_nist
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
10000
20000
30000
normal (skew=0.98)

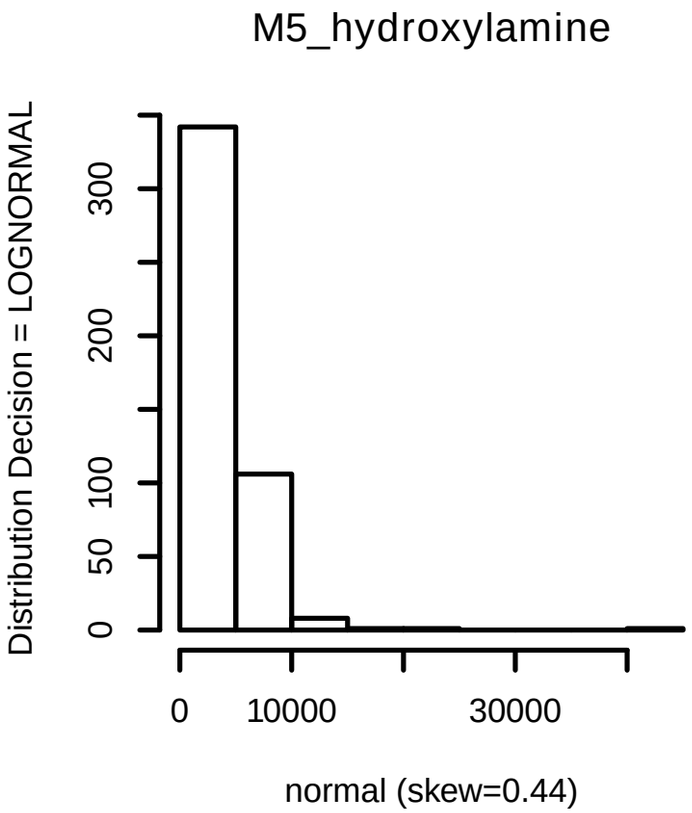

M5_diacetone_alcohol_nist
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
lognormal (skew=0.74)

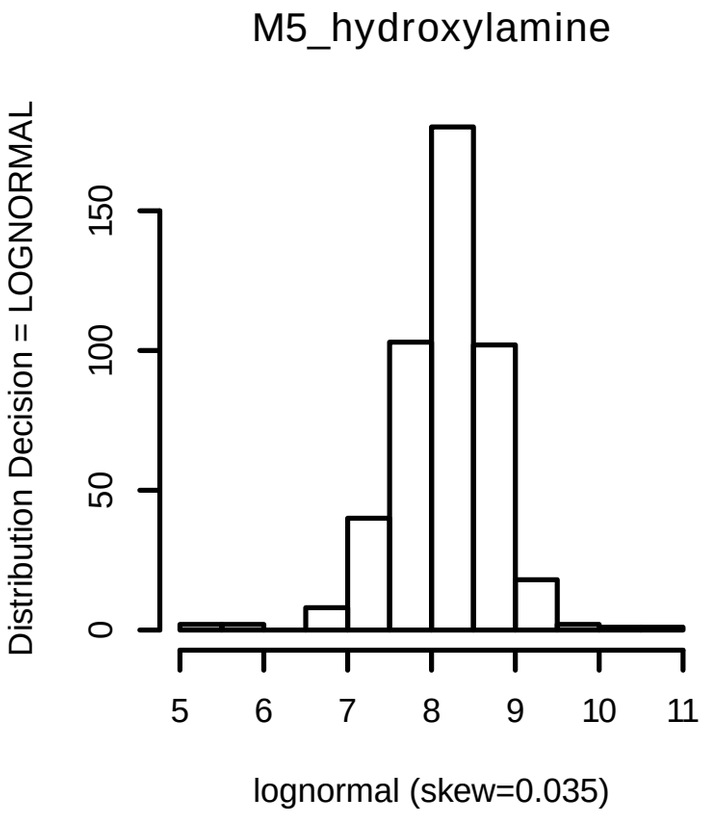

M5_palmitoleic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
4e+04
8e+04
normal (skew=1)

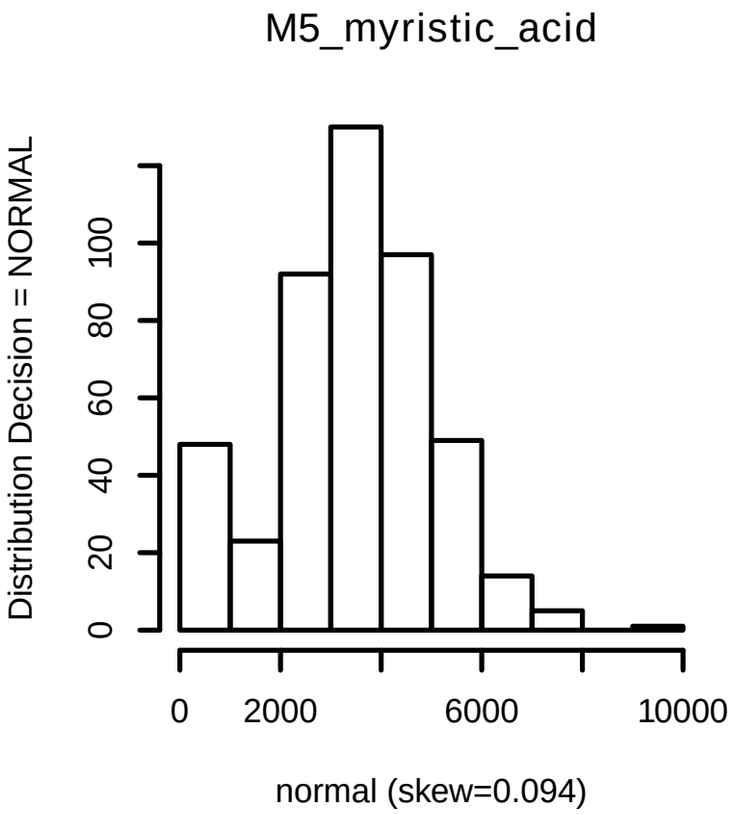

M5_palmitoleic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
11
lognormal (skew=0.068)

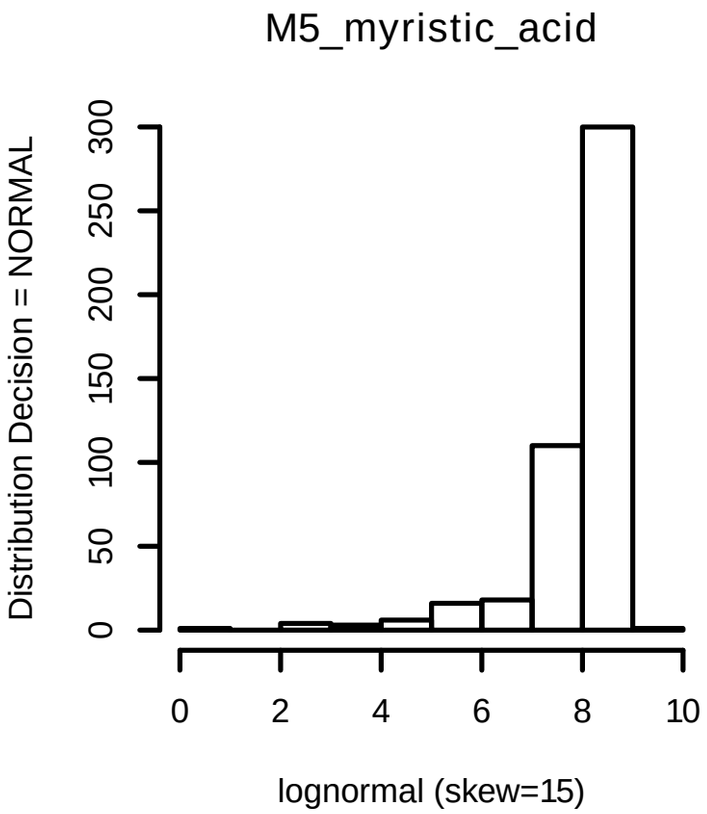

M5__hydroxyvaleric_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
50000
150000
normal (skew=1)

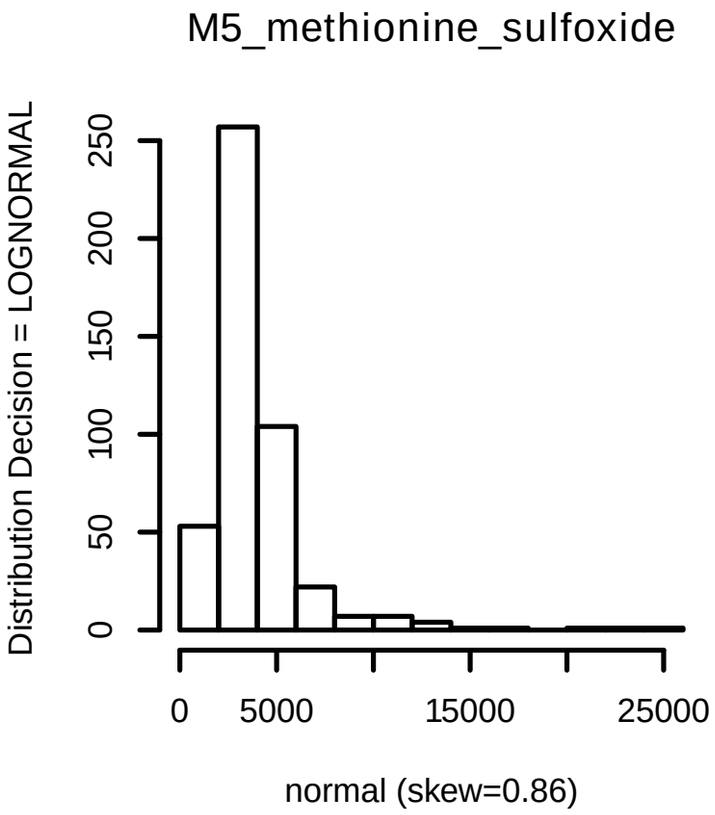

M5__hydroxyvaleric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
7
8
9
10
11
12
lognormal (skew=0.33)

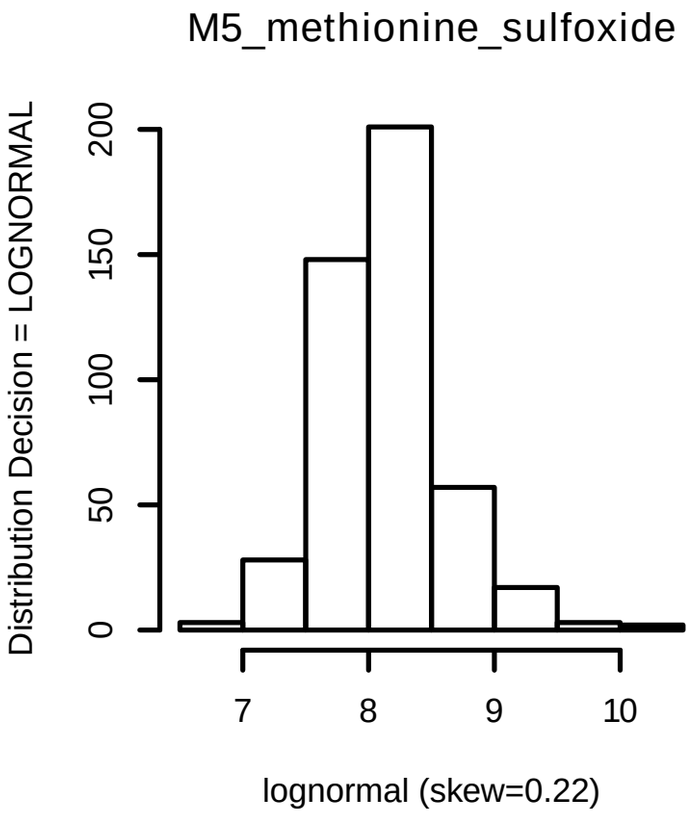

M5_hydroxylamine
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
10000
30000
normal (skew=0.44)

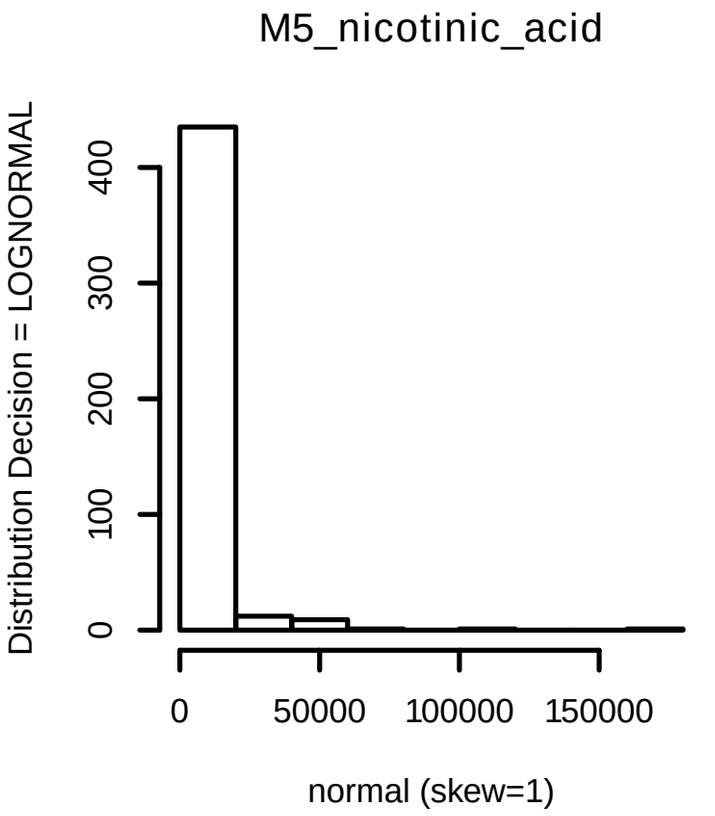

M5_hydroxylamine
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
10
11
lognormal (skew=0.035)

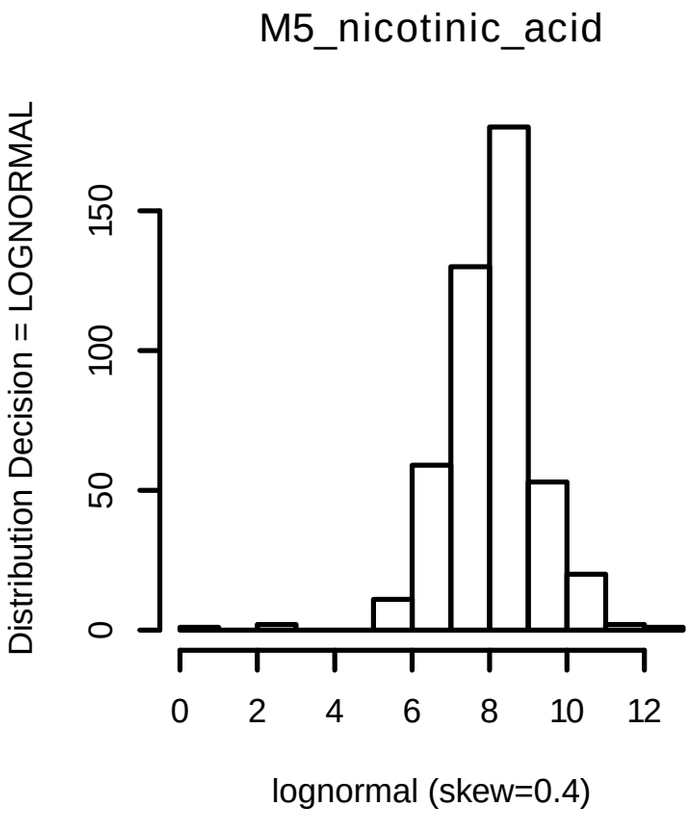

M5_myristic_acid
Distribution Decision = NORMAL
0
20
40
60
80
100
0
2000
6000
10000
normal (skew=0.094)

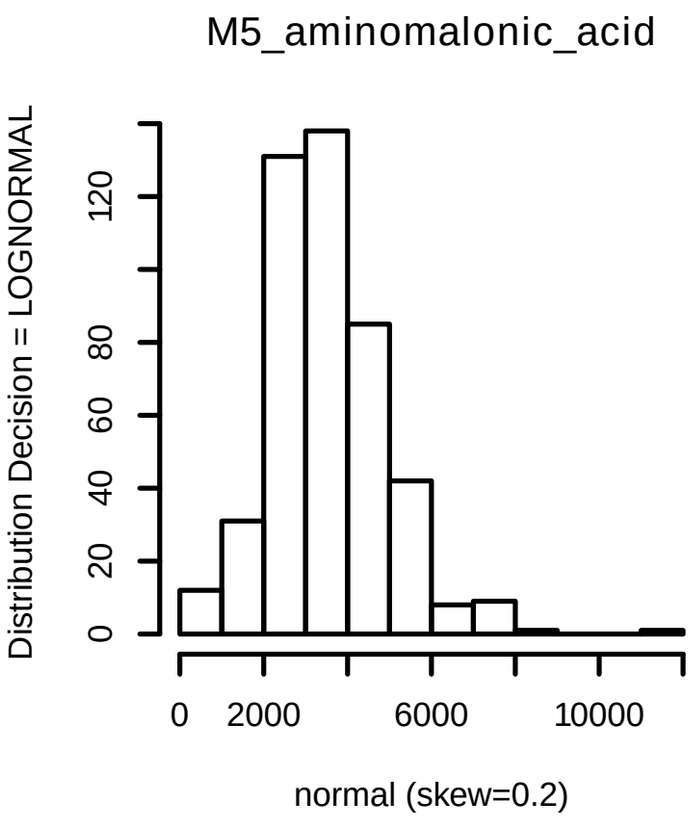

M5_myristic_acid
Distribution Decision = NORMAL
0
50
100
150
200
250
300
0
2
4
6
8
10
lognormal (skew=15)

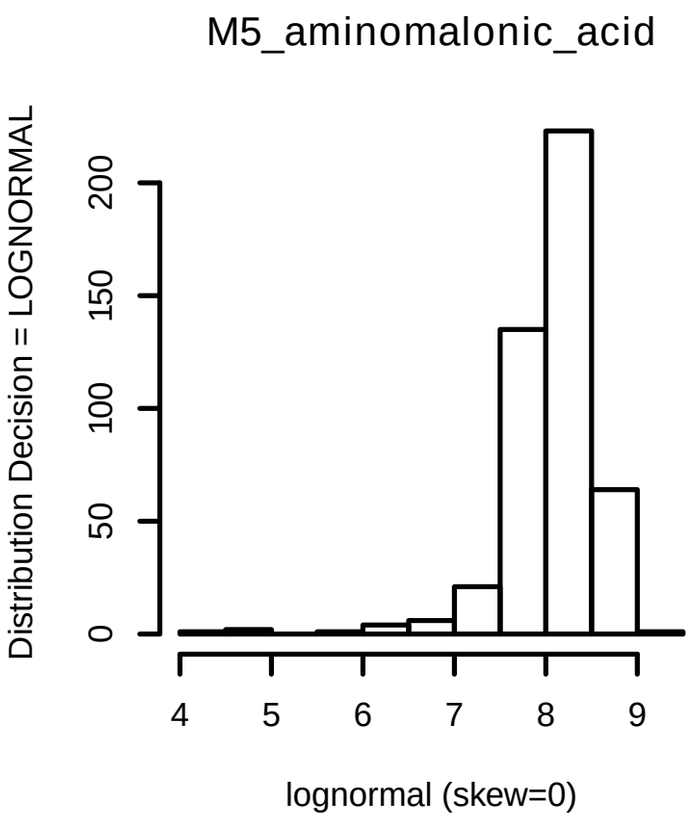

M5_methionine_sulfoxide
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
15000
25000
normal (skew=0.86)

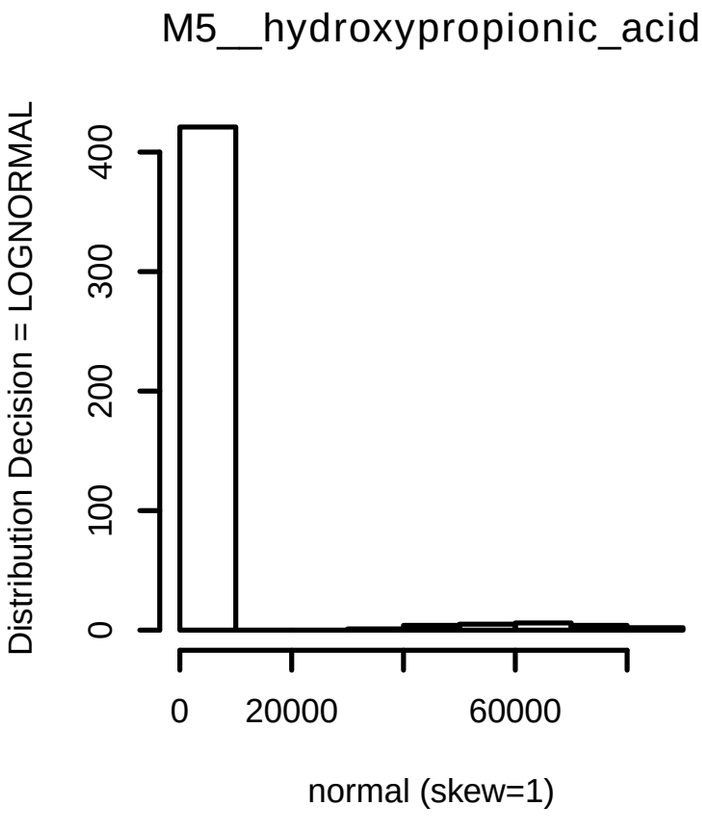

M5_methionine_sulfoxide
Distribution Decision = LOGNORMAL
0
50
100
150
200
7
8
9
10
lognormal (skew=0.22)

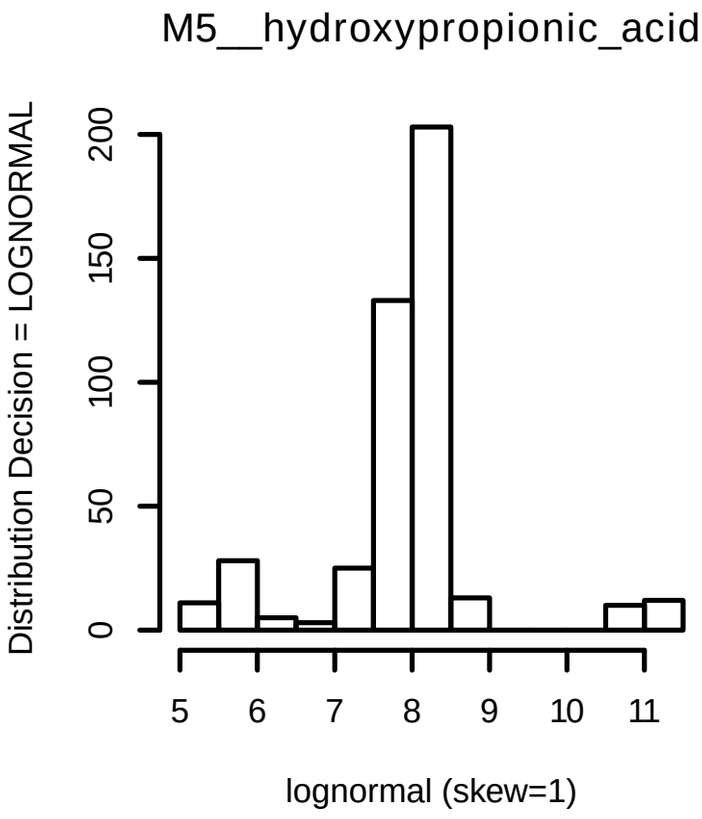

M5_nicotinic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
50000
100000
150000
normal (skew=1)

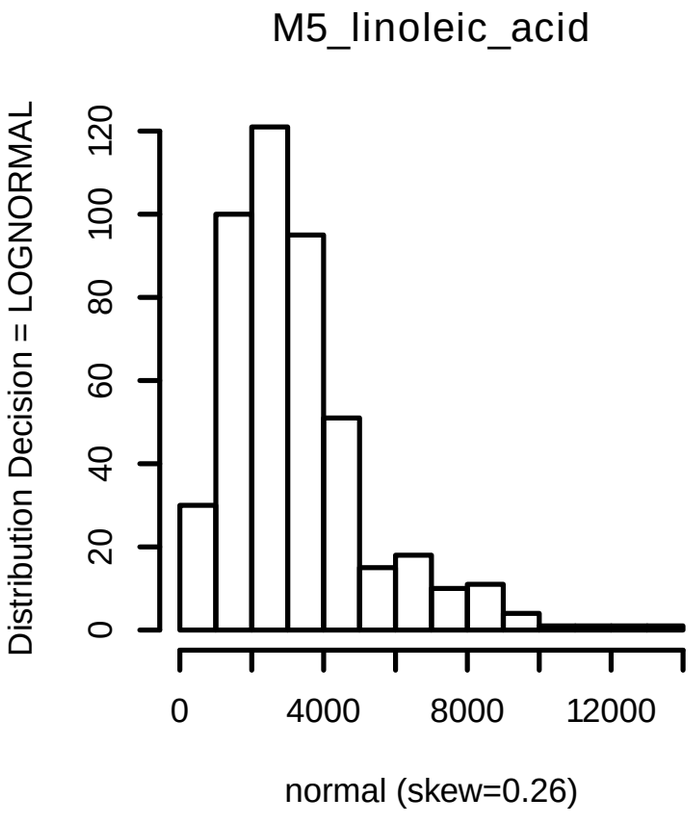

M5_nicotinic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
12
lognormal (skew=0.4)

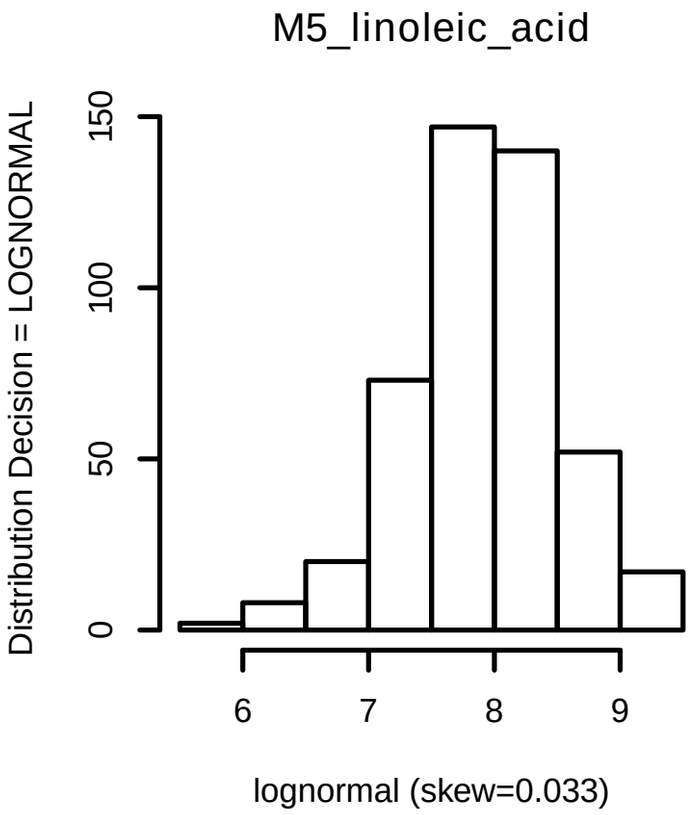

M5_aminomalonic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
2000
6000
10000
normal (skew=0.2)

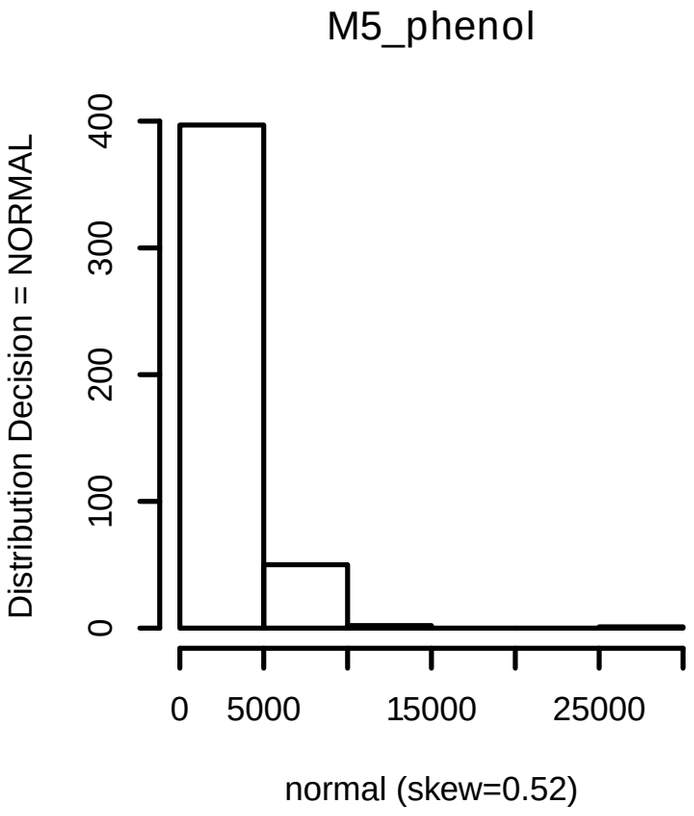

M5_aminomalonic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
4
5
6
7
8
9
lognormal (skew=0)

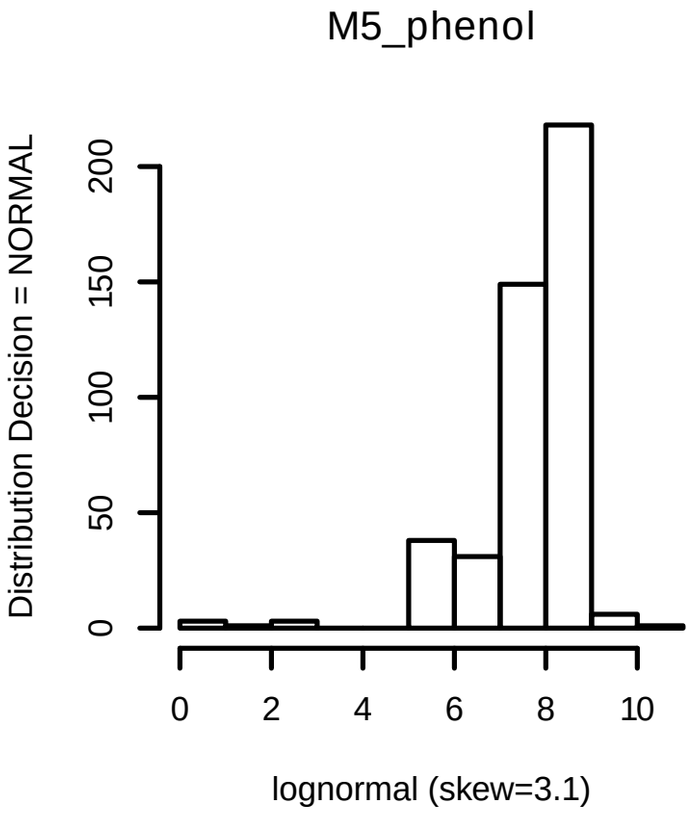

M5__hydroxypropionic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
20000
60000
normal (skew=1)

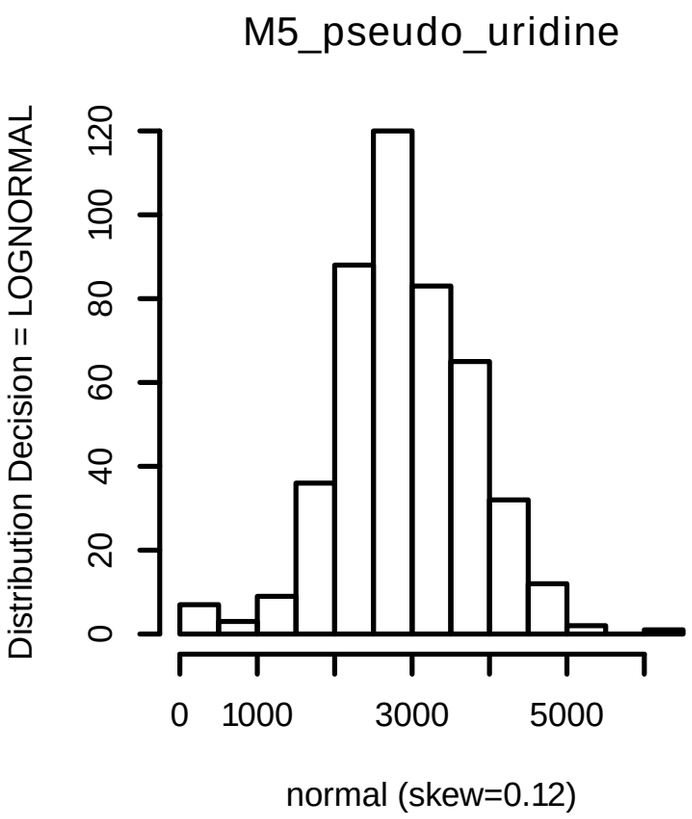

M5__hydroxypropionic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
5
6
7
8
9
10
11
lognormal (skew=1)

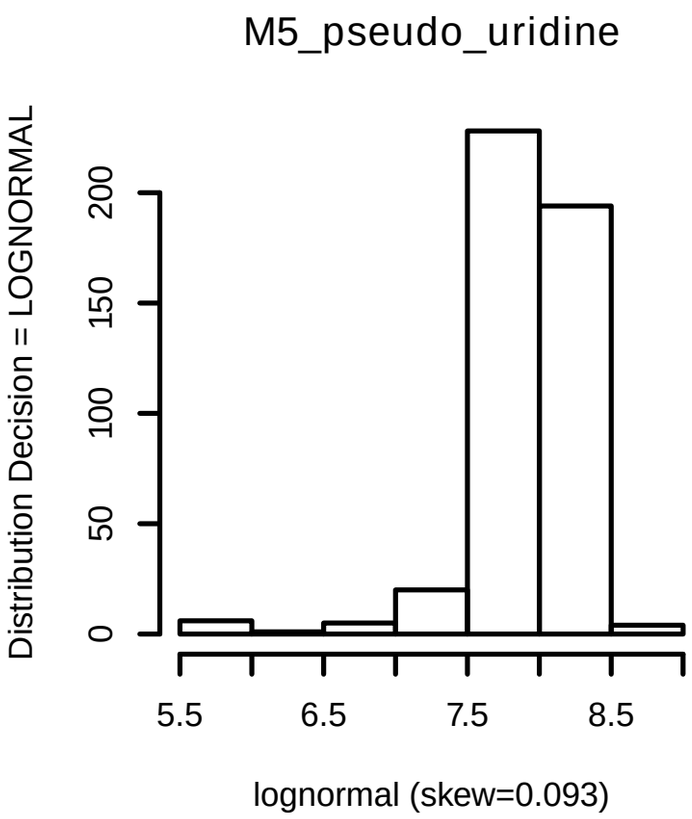

M5_linoleic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
4000
8000
12000
normal (skew=0.26)

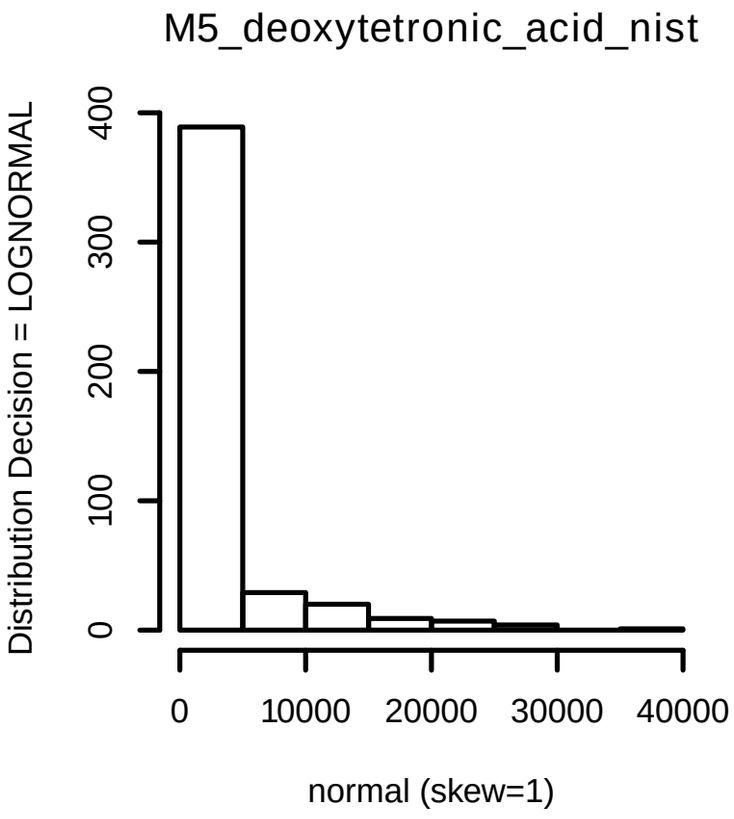

M5_linoleic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
6
7
8
9
lognormal (skew=0.033)

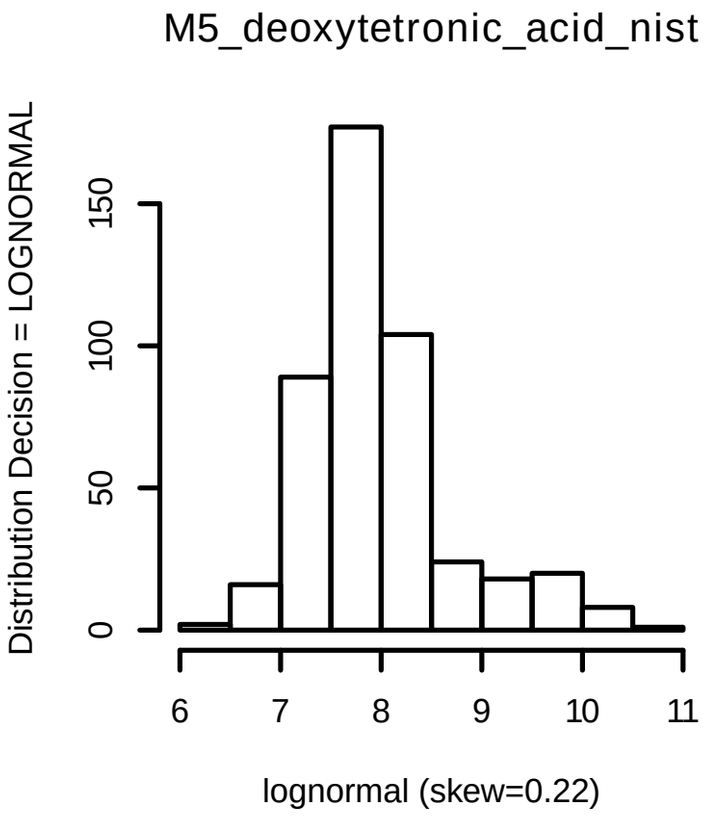

M5_phenol
Distribution Decision = NORMAL
0
100
200
300
400
0
5000
15000
25000
normal (skew=0.52)

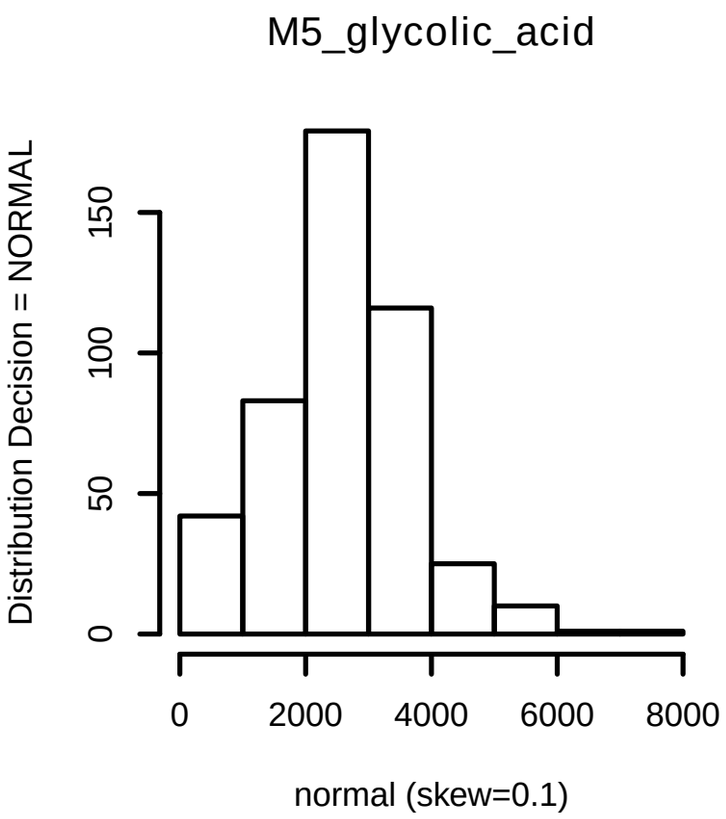

M5_phenol
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
10
lognormal (skew=3.1)

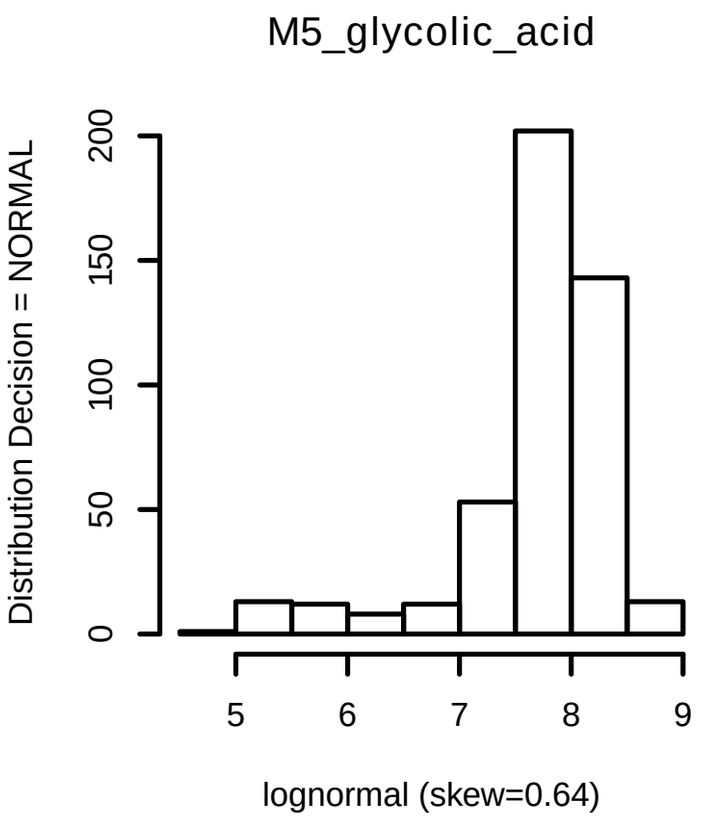

M5_pseudo_uridine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
1000
3000
5000
normal (skew=0.12)

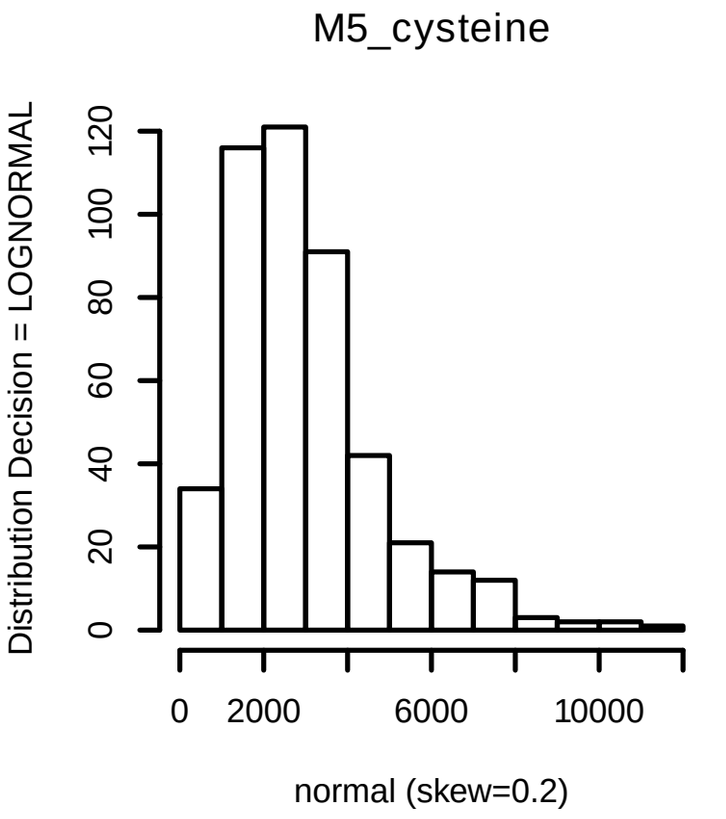

M5_pseudo_uridine
Distribution Decision = LOGNORMAL
0
50
100
150
200
5.5
6.5
7.5
8.5
lognormal (skew=0.093)

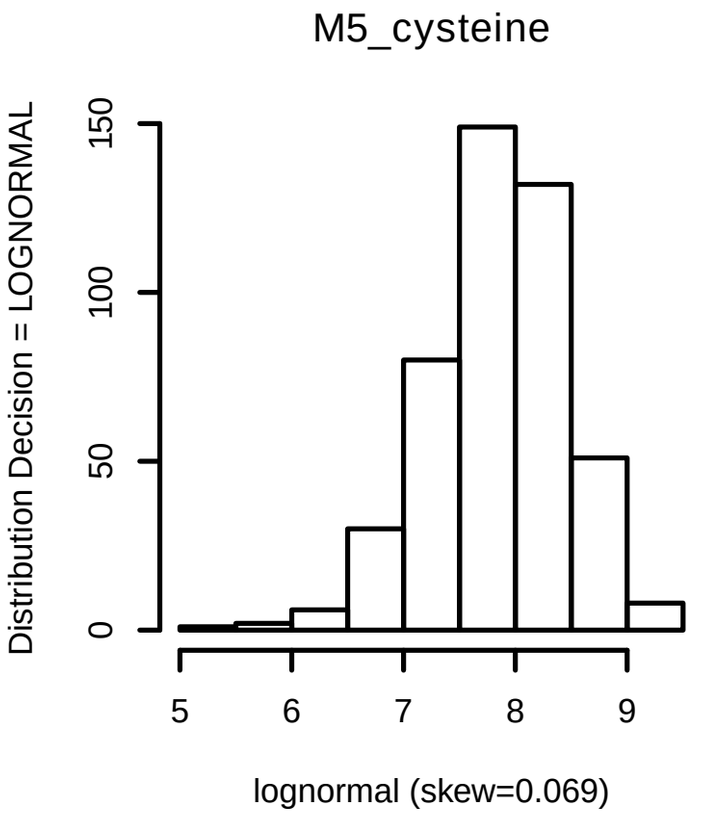

M5_deoxytetronic_acid_nist
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
20000
30000
40000
normal (skew=1)

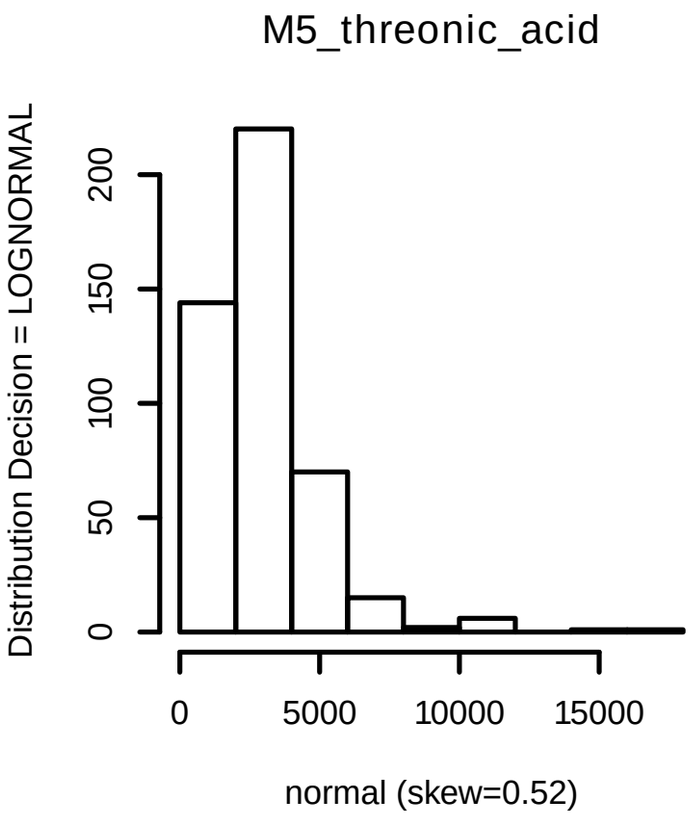

M5_deoxytetronic_acid_nist
Distribution Decision = LOGNORMAL
0
50
100
150
6
7
8
9
10
11
lognormal (skew=0.22)

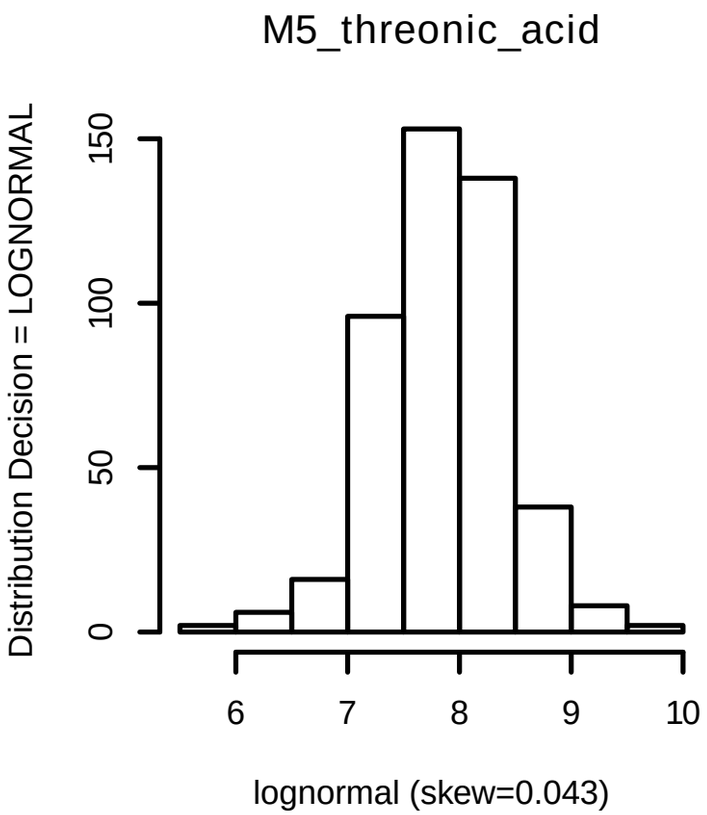

M5_glycolic_acid
Distribution Decision = NORMAL
0
50
100
150
0
2000
4000
6000
8000
normal (skew=0.1)

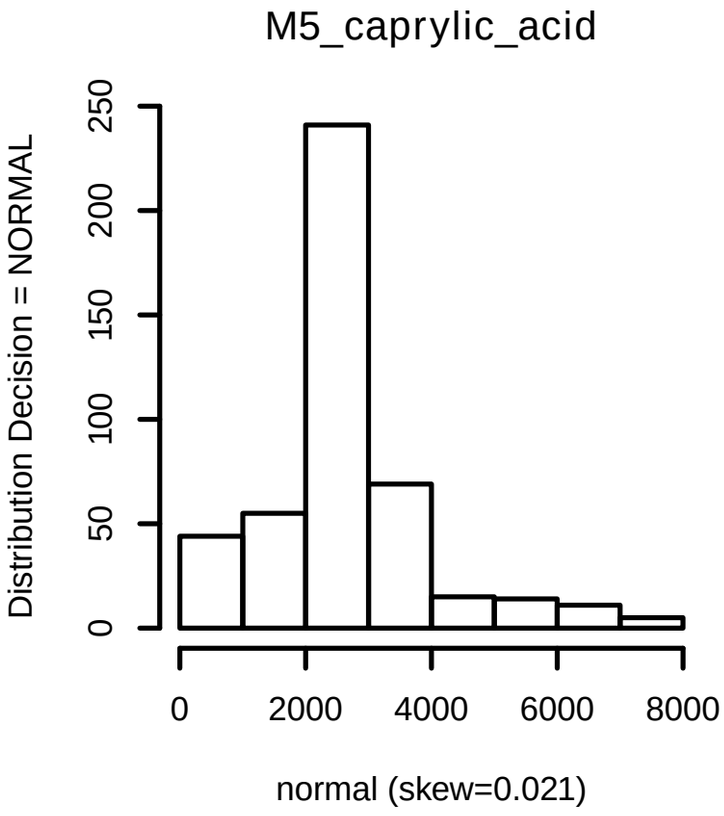

M5_glycolic_acid
Distribution Decision = NORMAL
0
50
100
150
200
5
6
7
8
9
lognormal (skew=0.64)

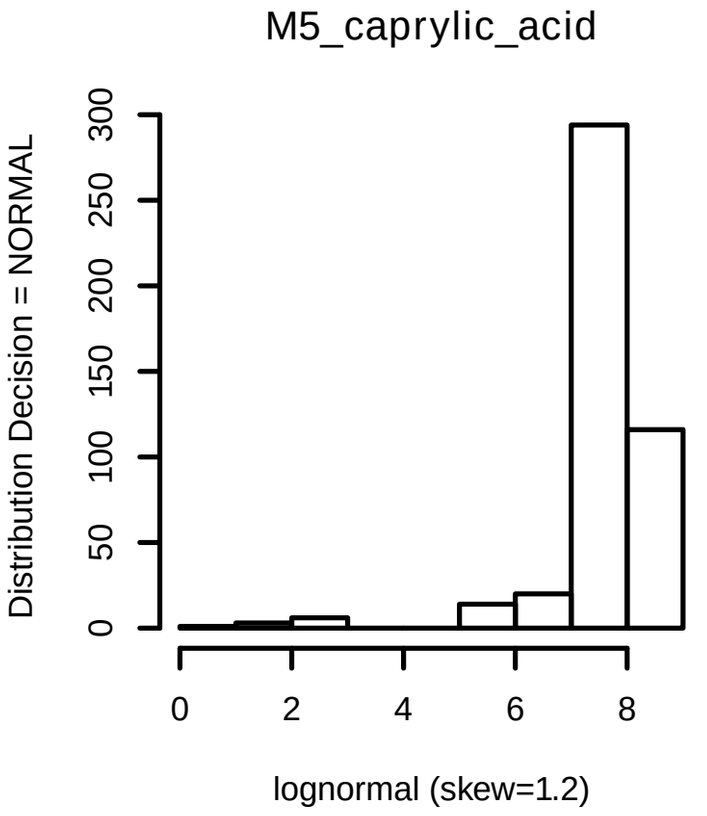

M5_cysteine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
2000
6000
10000
normal (skew=0.2)

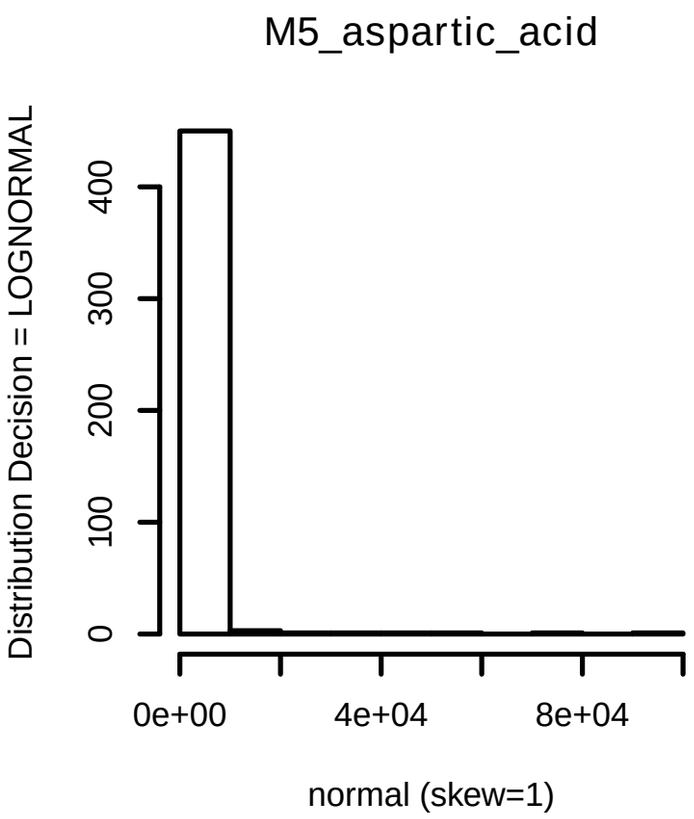

M5_cysteine
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
lognormal (skew=0.069)

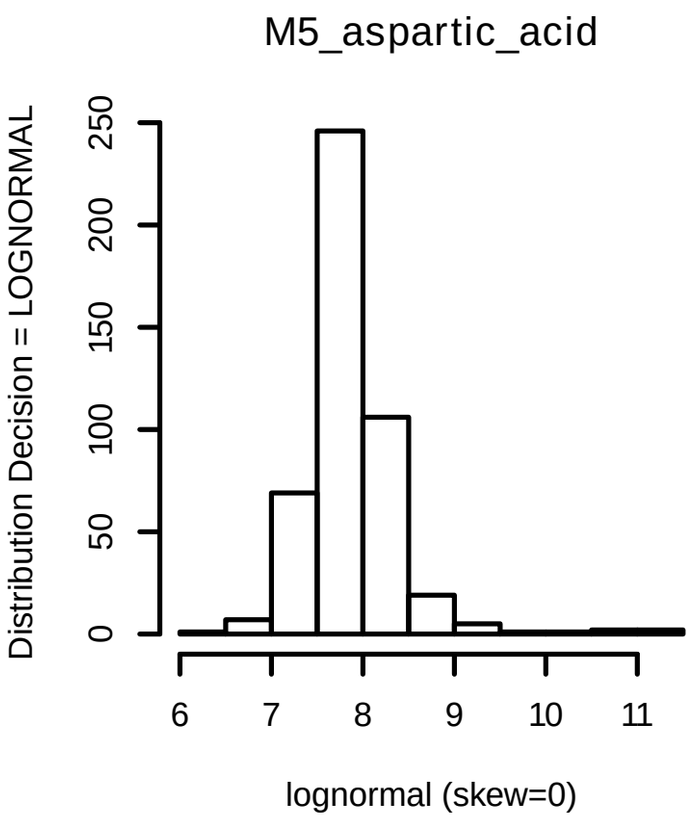

M5_threonic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
5000
10000
15000
normal (skew=0.52)

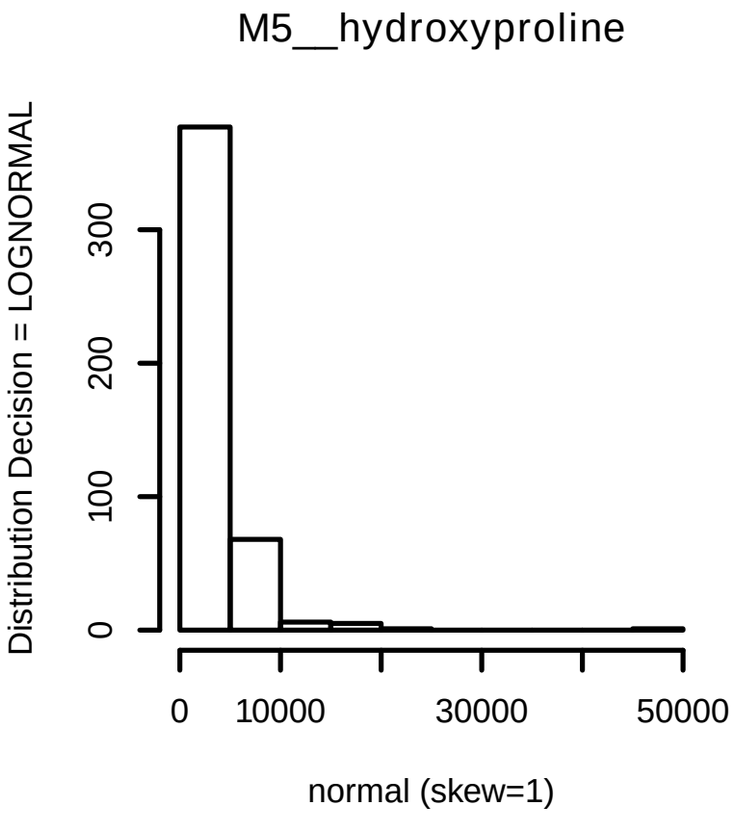

M5_threonic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
6
7
8
9
10
lognormal (skew=0.043)

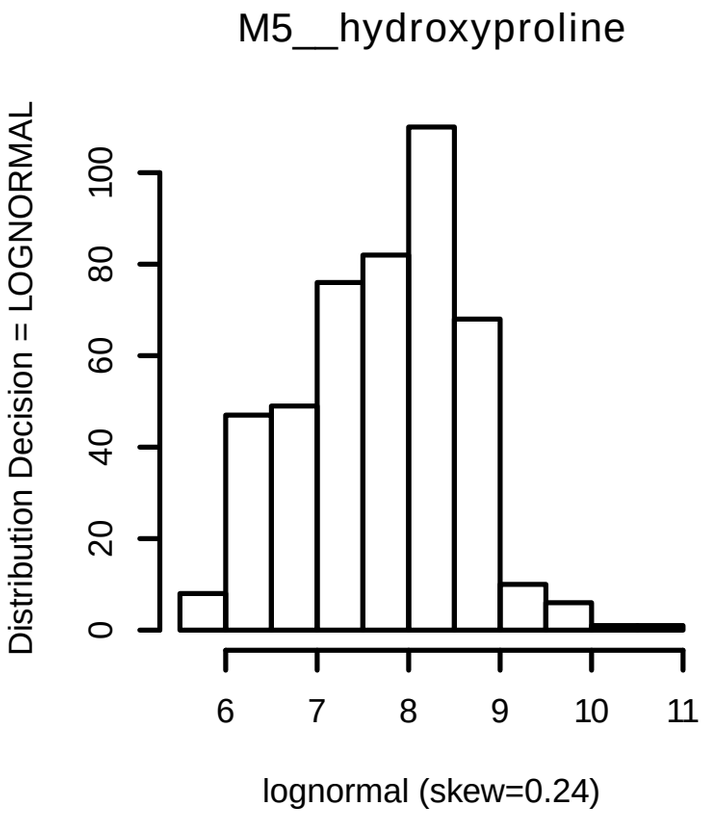

M5_caprylic_acid
Distribution Decision = NORMAL
0
50
100
150
200
250
0
2000
4000
6000
8000
normal (skew=0.021)

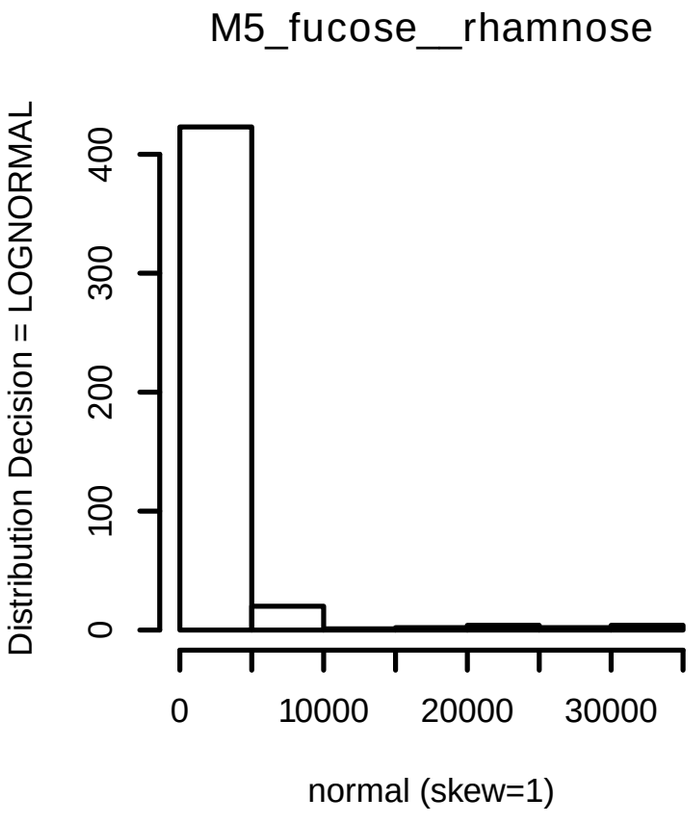

M5_caprylic_acid
Distribution Decision = NORMAL
0
50
100
150
200
250
300
0
2
4
6
8
lognormal (skew=1.2)

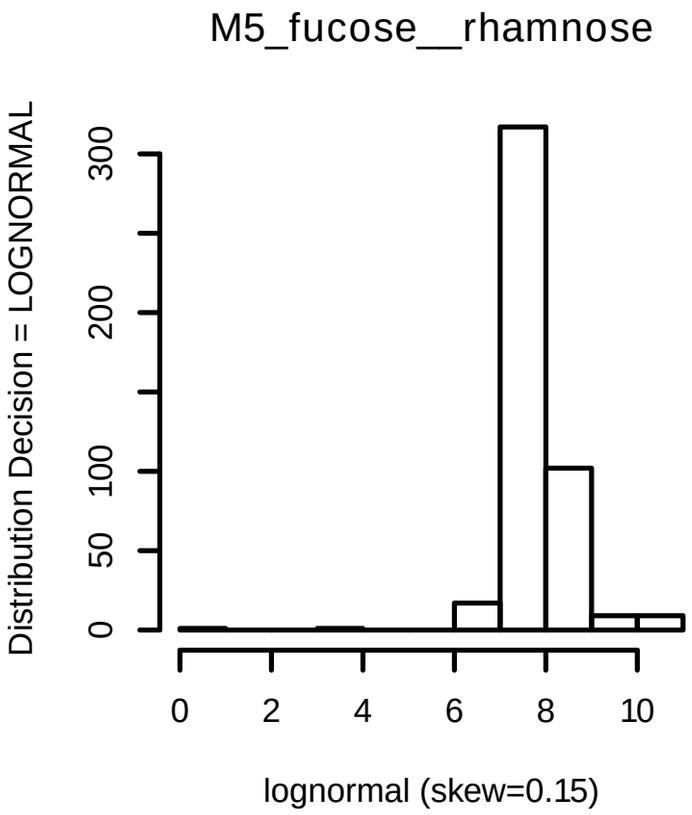

M5_aspartic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
4e+04
8e+04
normal (skew=1)

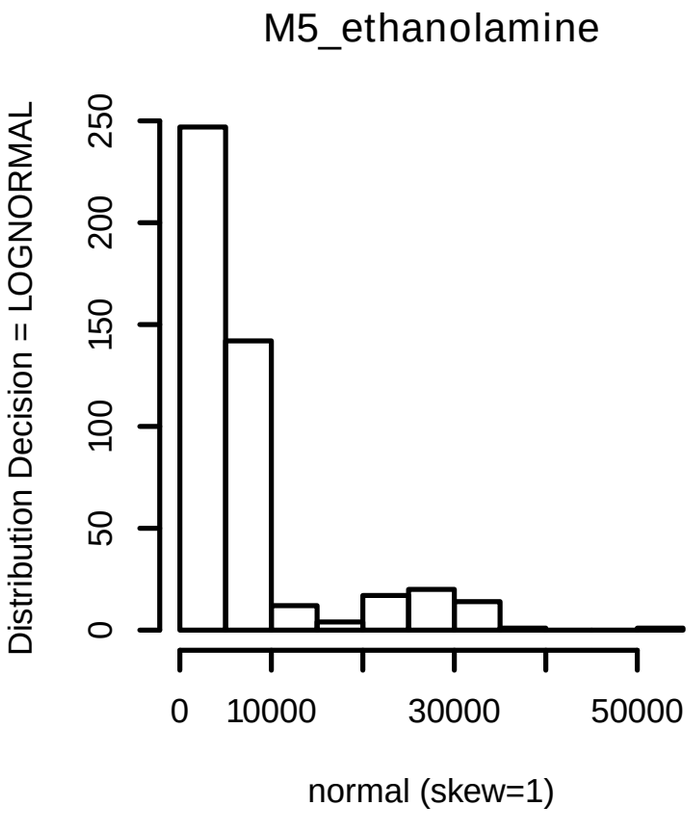

M5_aspartic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
6
7
8
9
10
11
lognormal (skew=0)

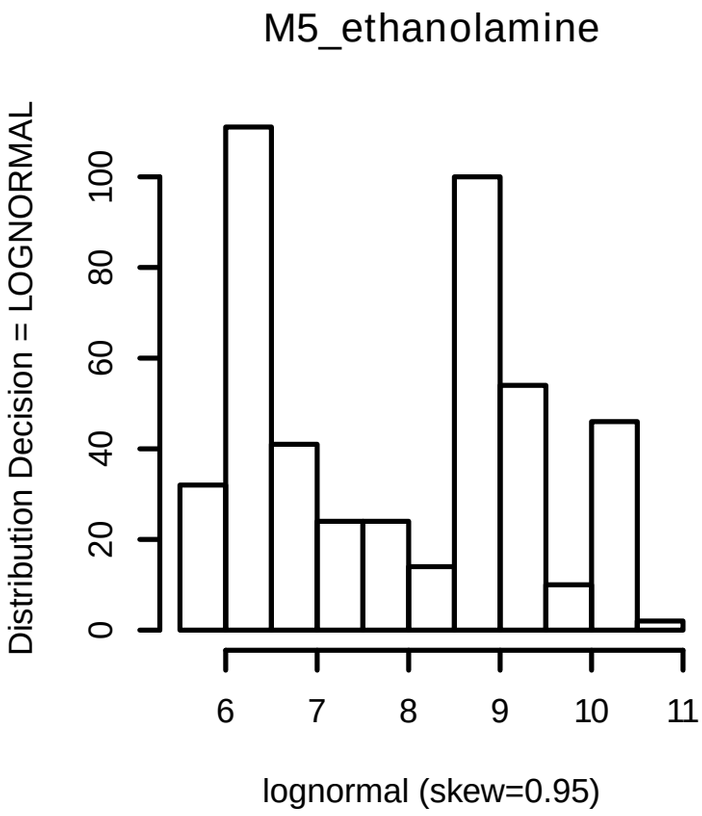

M5__hydroxyproline
Distribution Decision = LOGNORMAL
0
100
200
300
0
10000
30000
50000
normal (skew=1)

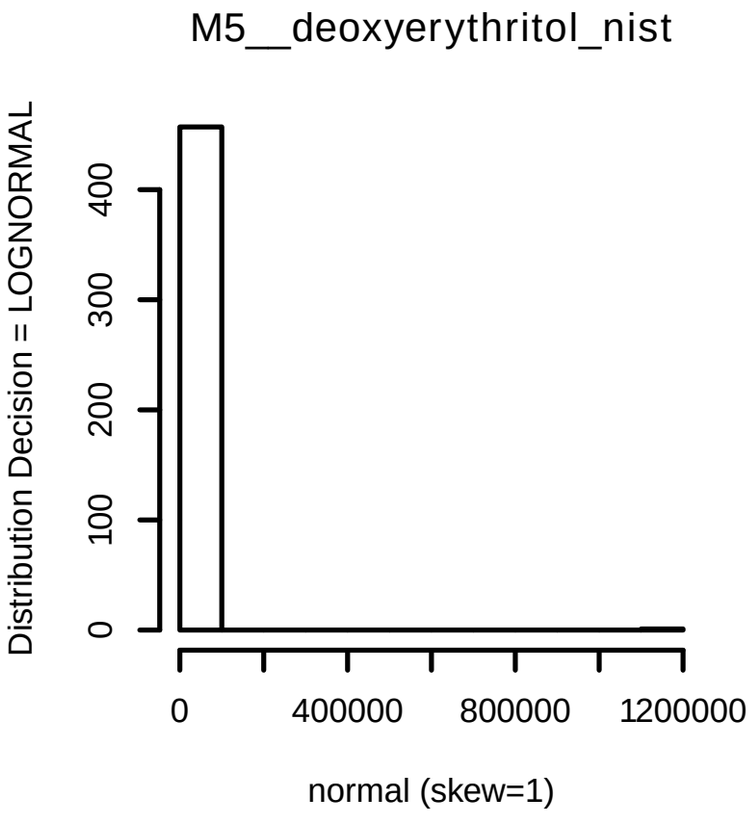

M5__hydroxyproline
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
11
lognormal (skew=0.24)

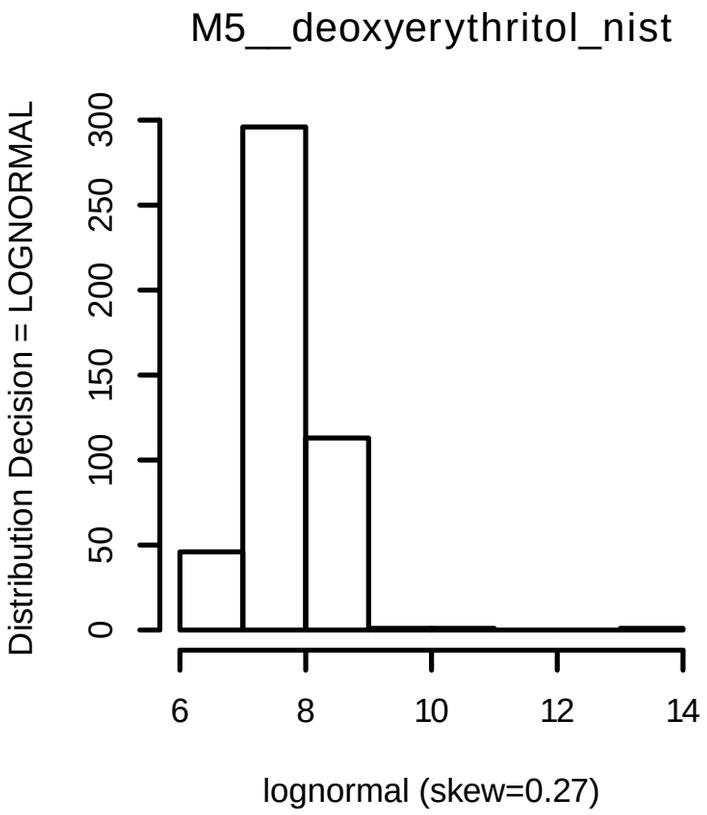

M5_fucose__rhamnose
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
20000
30000
normal (skew=1)

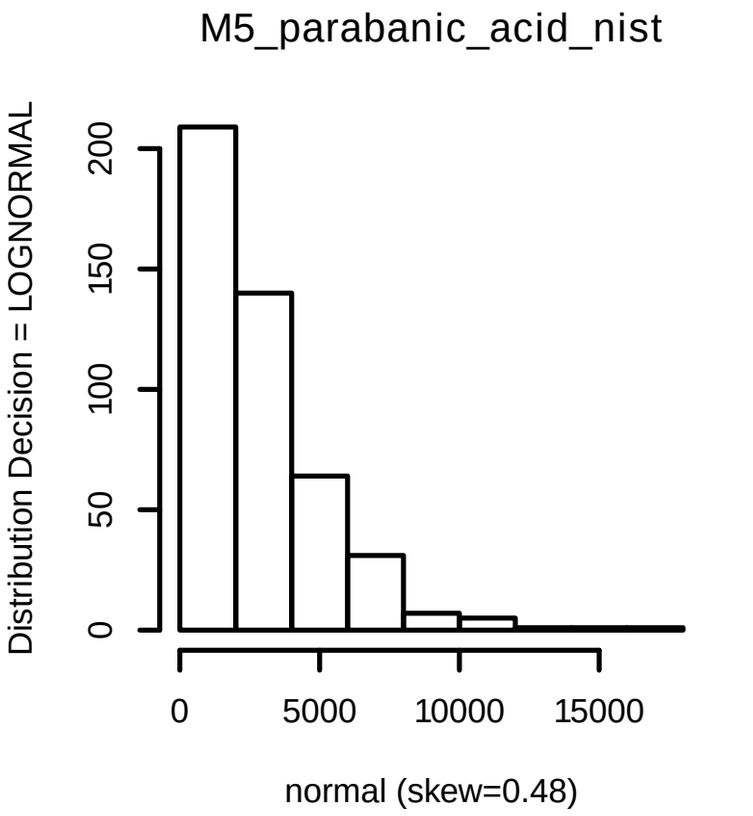

M5_fucose__rhamnose
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
2
4
6
8
10
lognormal (skew=0.15)

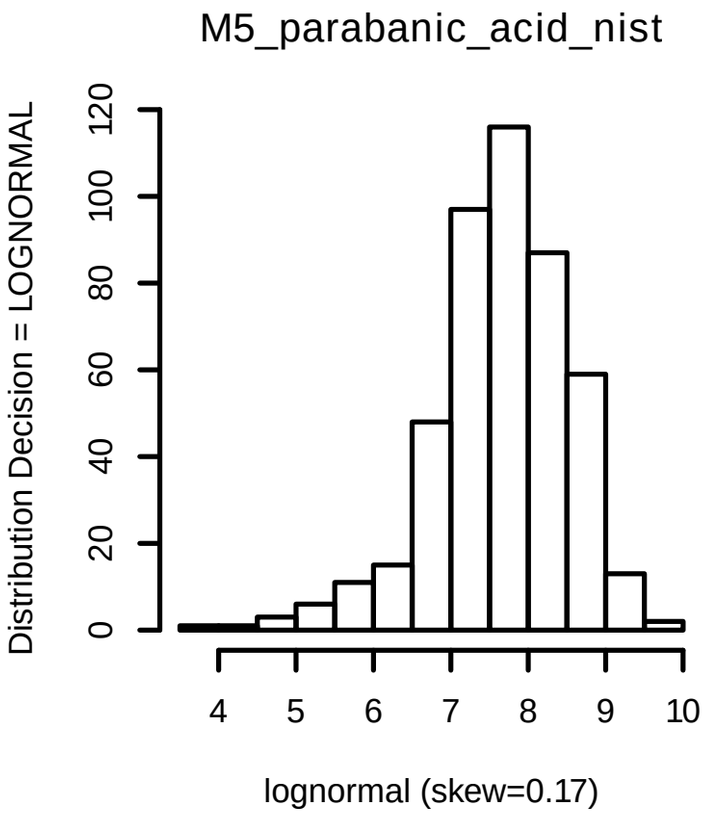

M5_ethanolamine
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
10000
30000
50000
normal (skew=1)

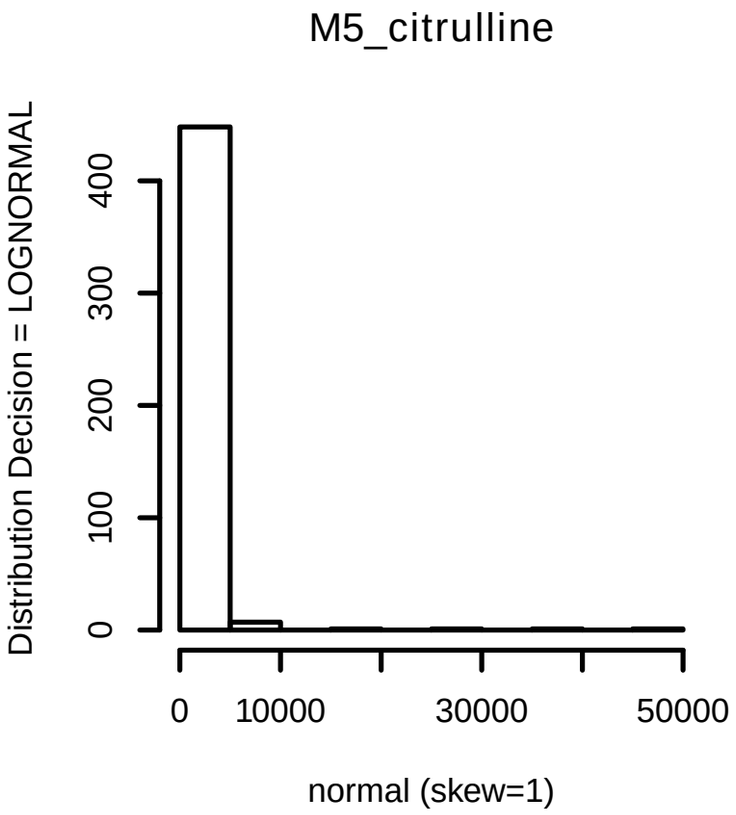

M5_ethanolamine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
11
lognormal (skew=0.95)

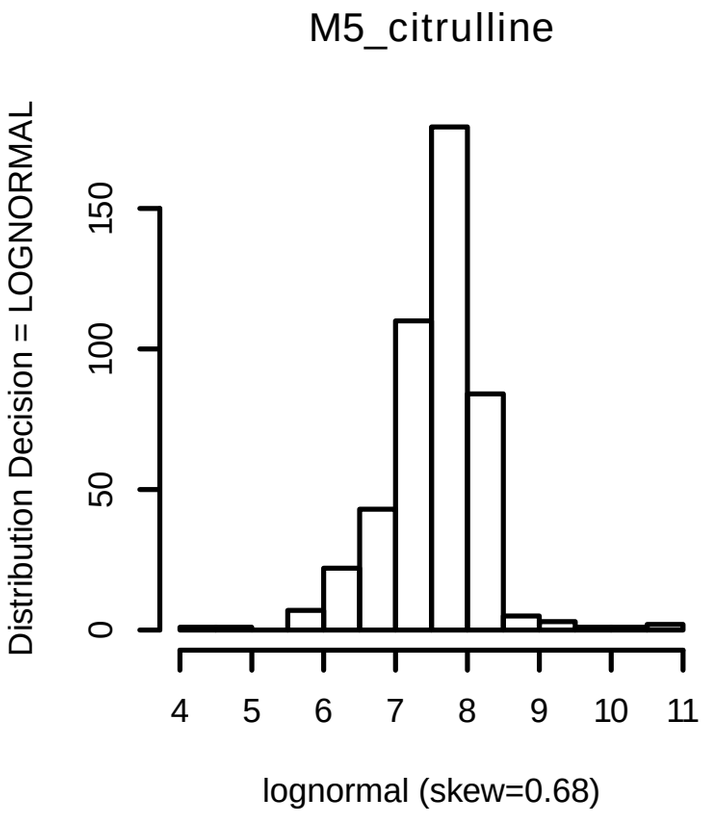

M5__deoxyerythritol_nist
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
400000
800000
1200000
normal (skew=1)

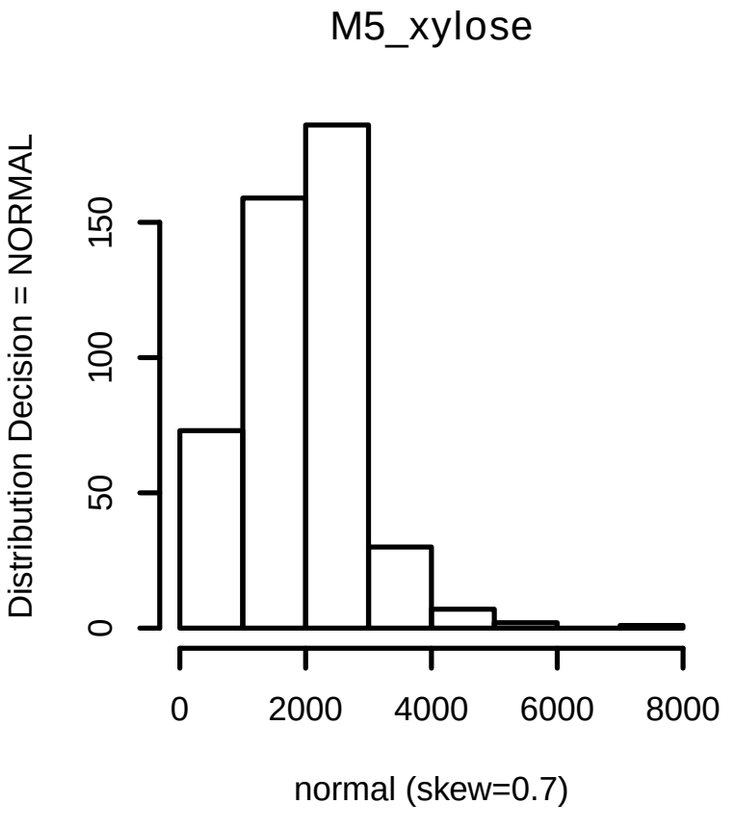

M5__deoxyerythritol_nist
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
6
8
10
12
14
lognormal (skew=0.27)

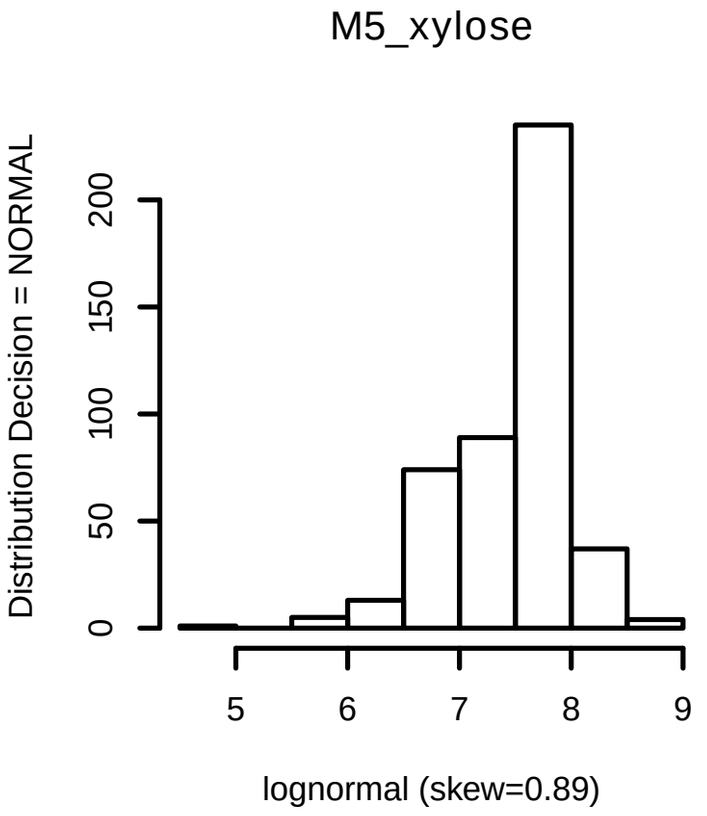

M5_parabanic_acid_nist
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
5000
10000
15000
normal (skew=0.48)

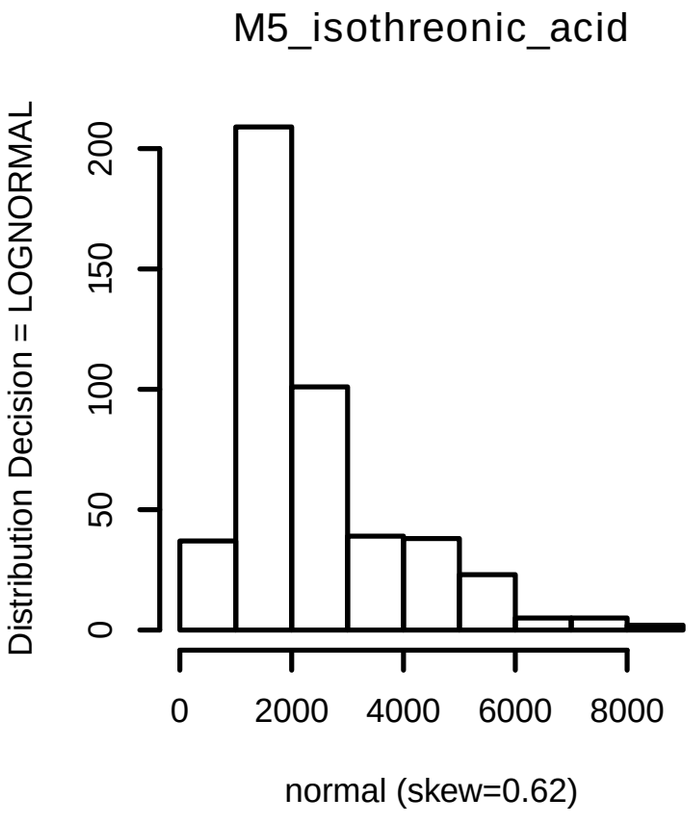

M5_parabanic_acid_nist
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
4
5
6
7
8
9
10
lognormal (skew=0.17)

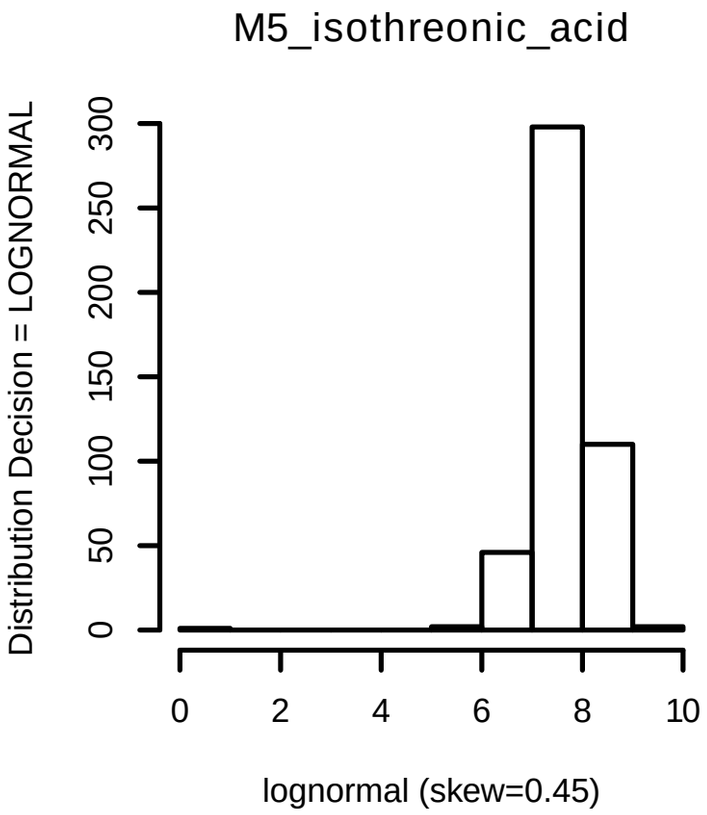

M5_citrulline
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
30000
50000
normal (skew=1)

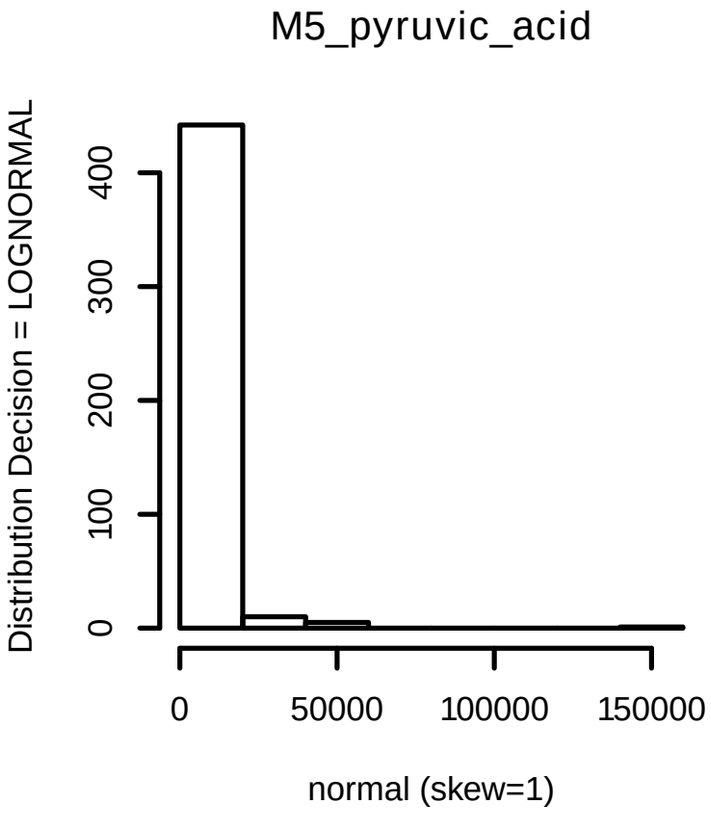

M5_citrulline
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
9
10
11
lognormal (skew=0.68)

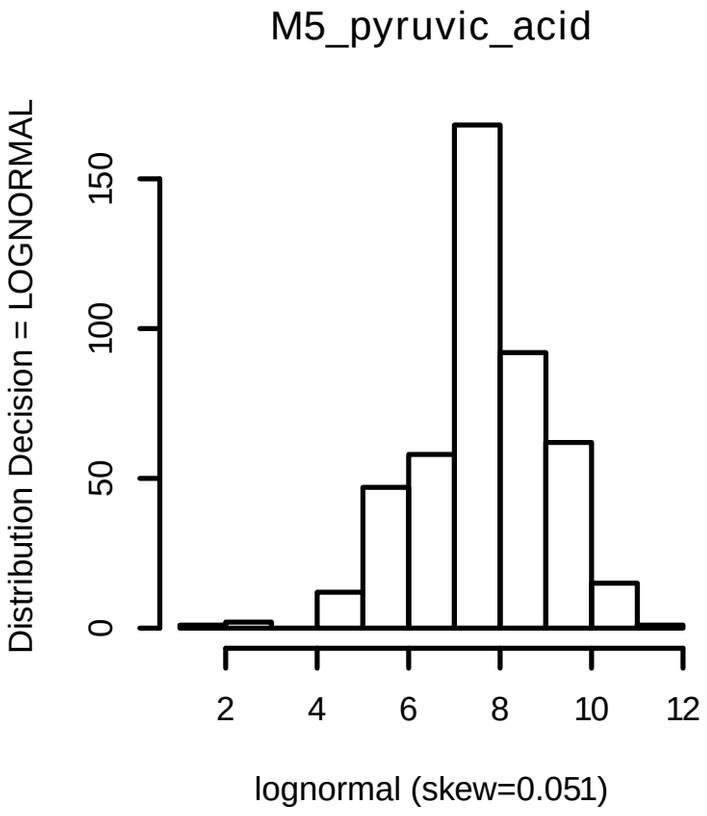

M5_xylose
Distribution Decision = NORMAL
0
50
100
150
0
2000
4000
6000
8000
normal (skew=0.7)

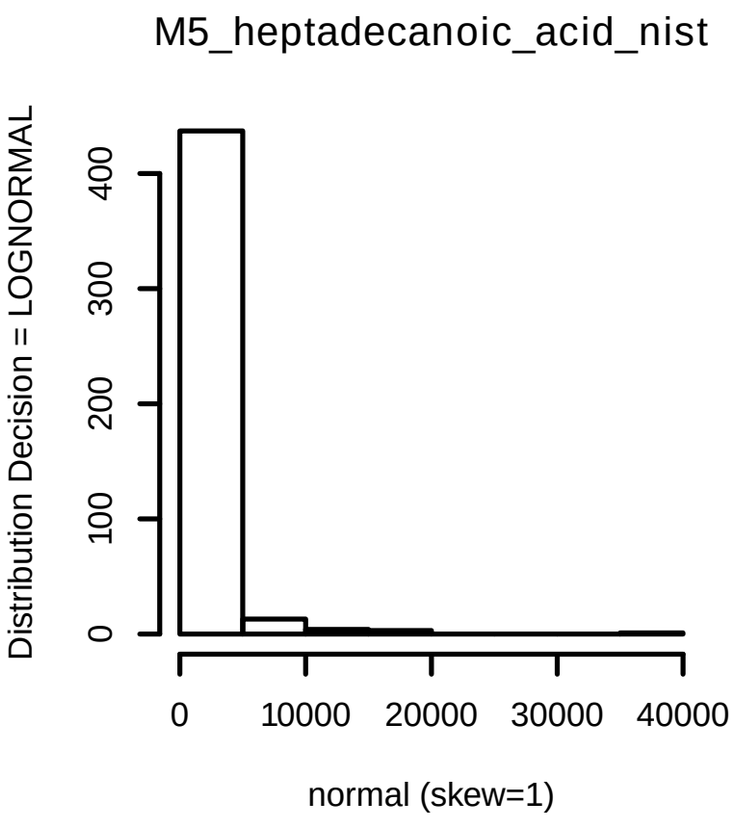

M5_xylose
Distribution Decision = NORMAL
0
50
100
150
200
5
6
7
8
9
lognormal (skew=0.89)

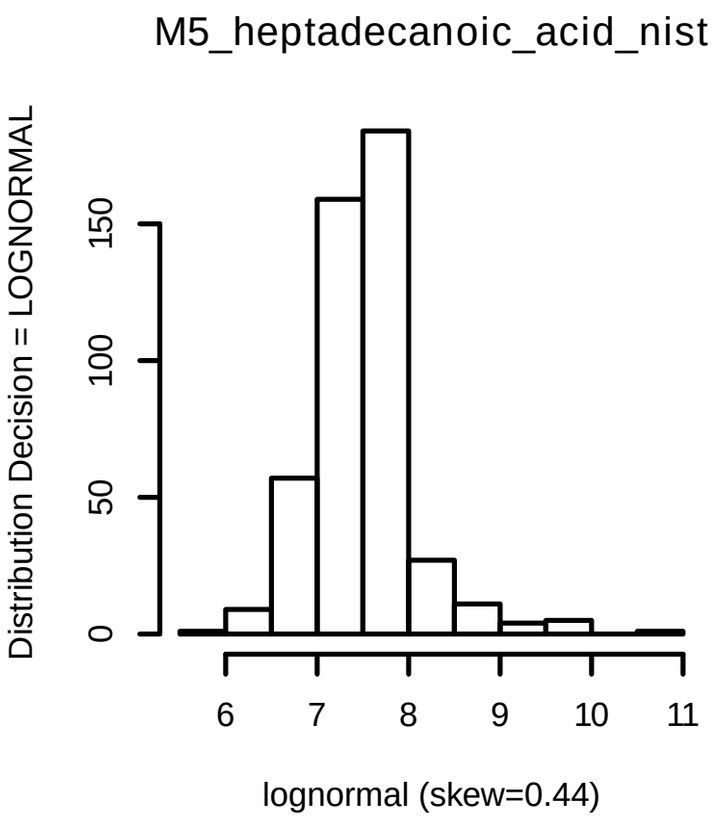

M5_isothreonic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2000
4000
6000
8000
normal (skew=0.62)

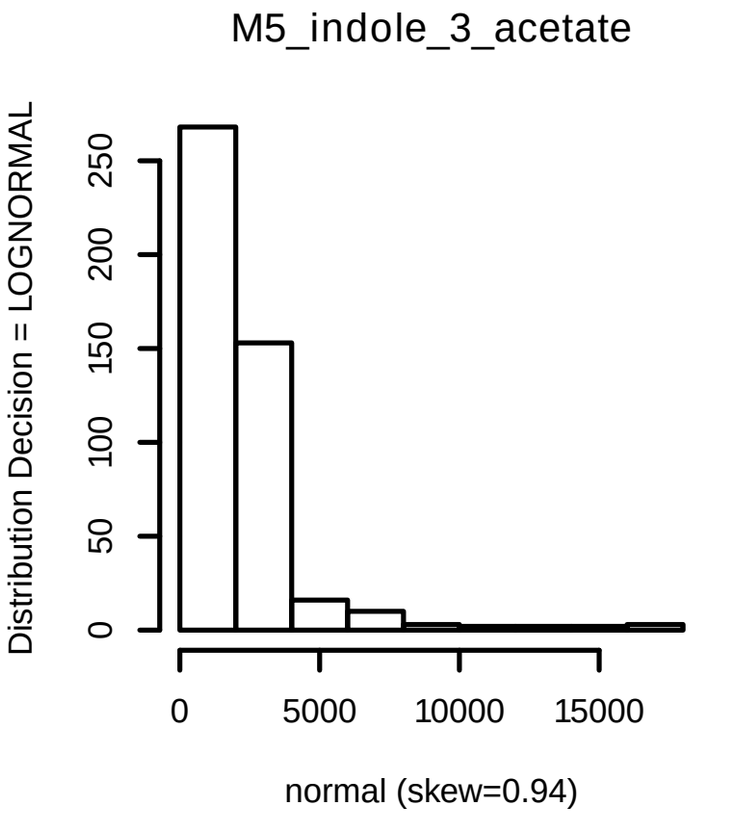

M5_isothreonic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
2
4
6
8
10
lognormal (skew=0.45)

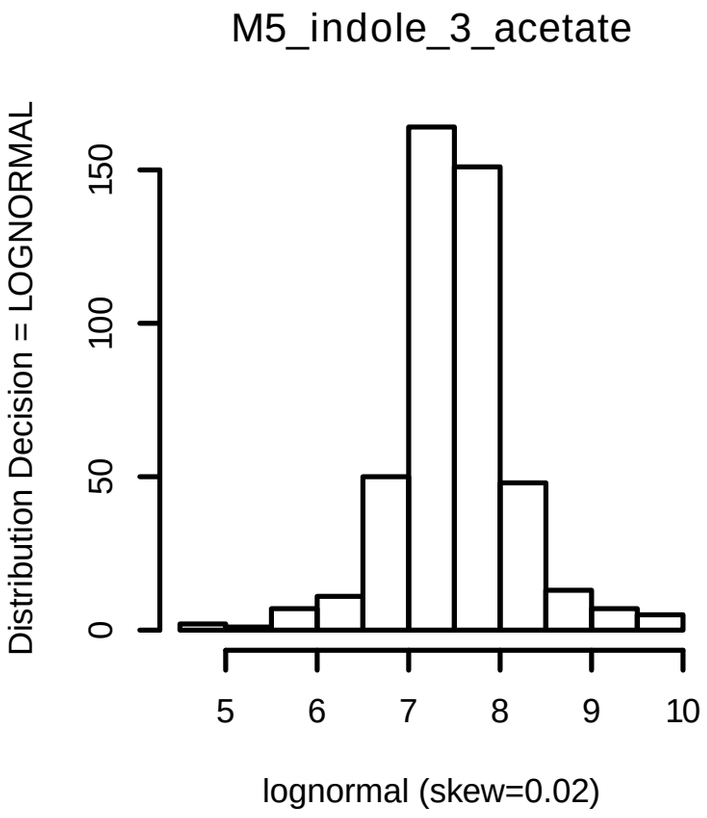

M5_pyruvic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
50000
100000
150000
normal (skew=1)

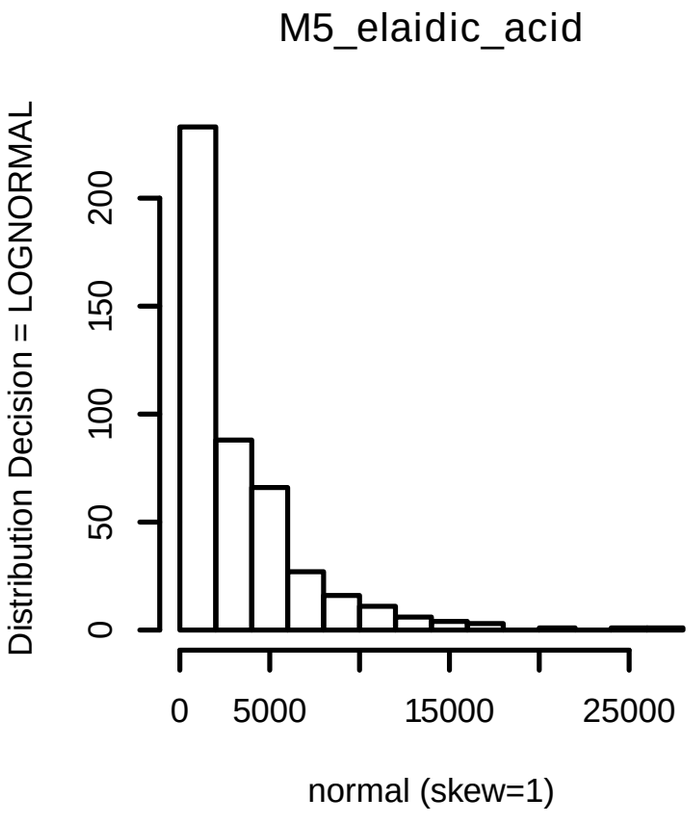

M5_pyruvic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
12
lognormal (skew=0.051)

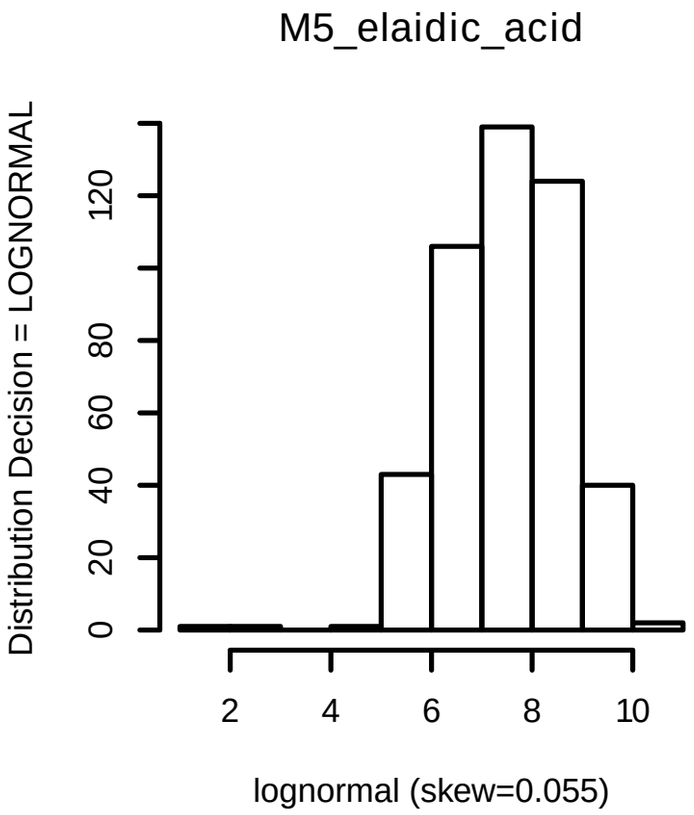

M5_heptadecanoic_acid_nist
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
20000
30000
40000
normal (skew=1)

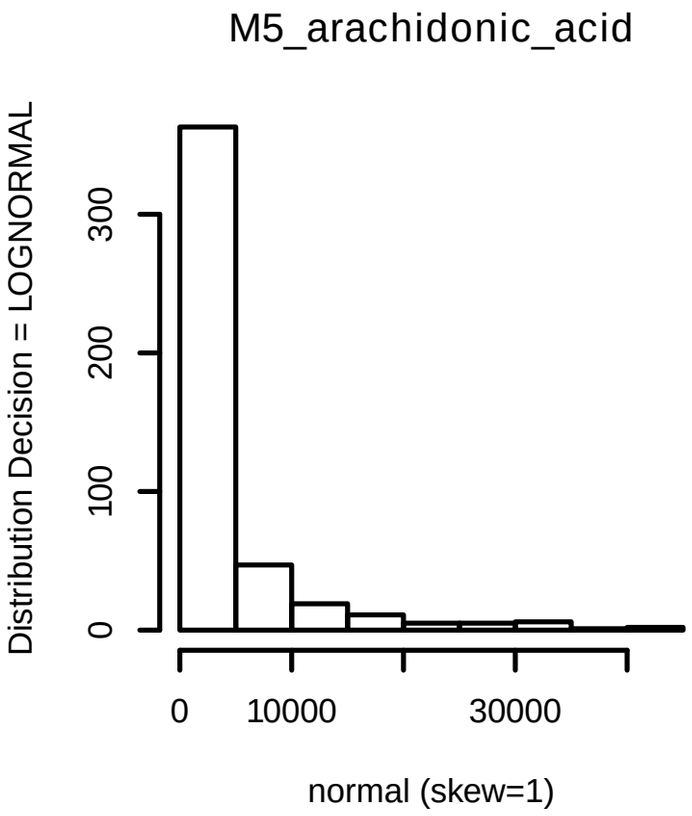

M5_heptadecanoic_acid_nist
Distribution Decision = LOGNORMAL
0
50
100
150
6
7
8
9
10
11
lognormal (skew=0.44)

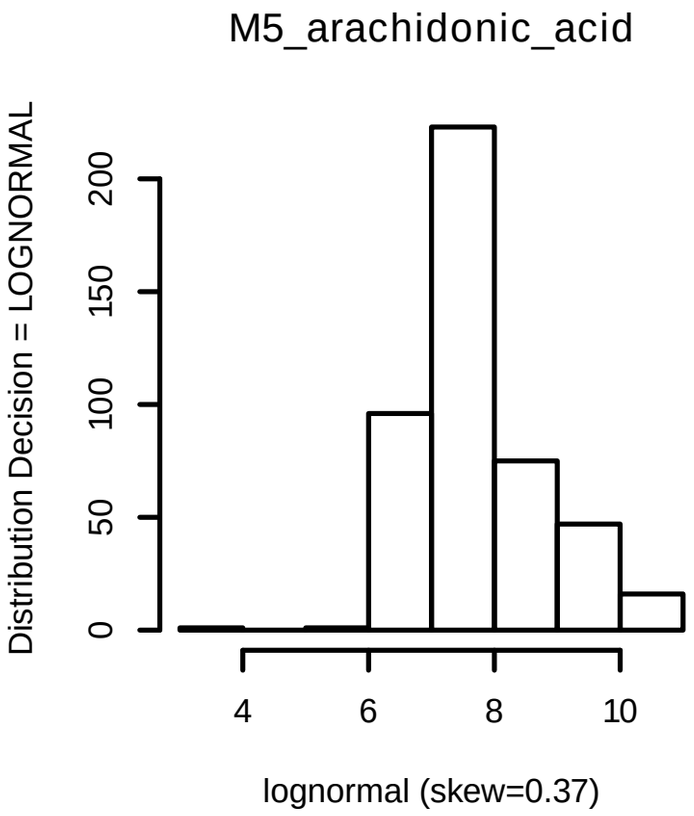

M5_indole_3_acetate
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
10000
15000
normal (skew=0.94)

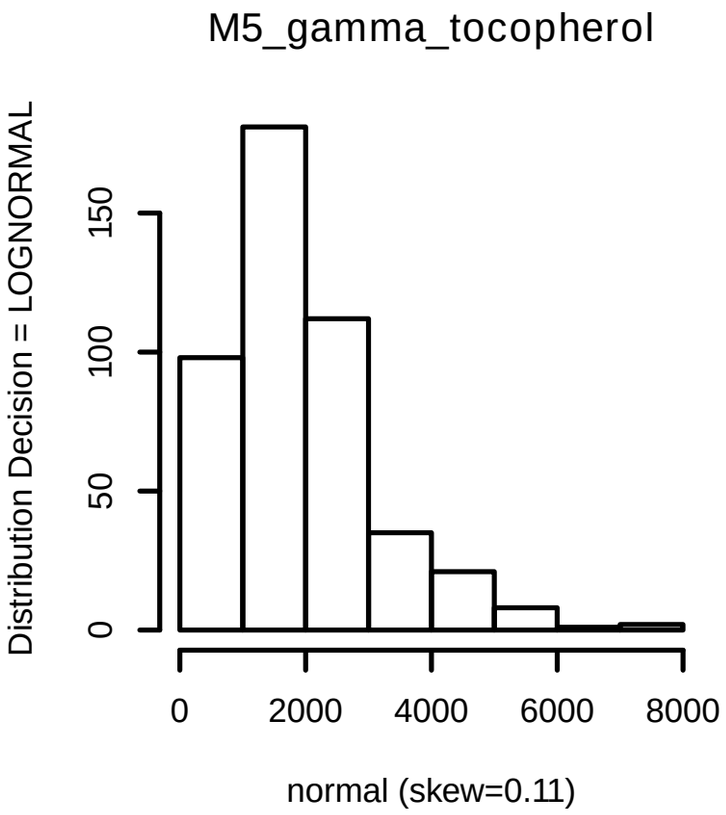

M5_indole_3_acetate
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
10
lognormal (skew=0.02)

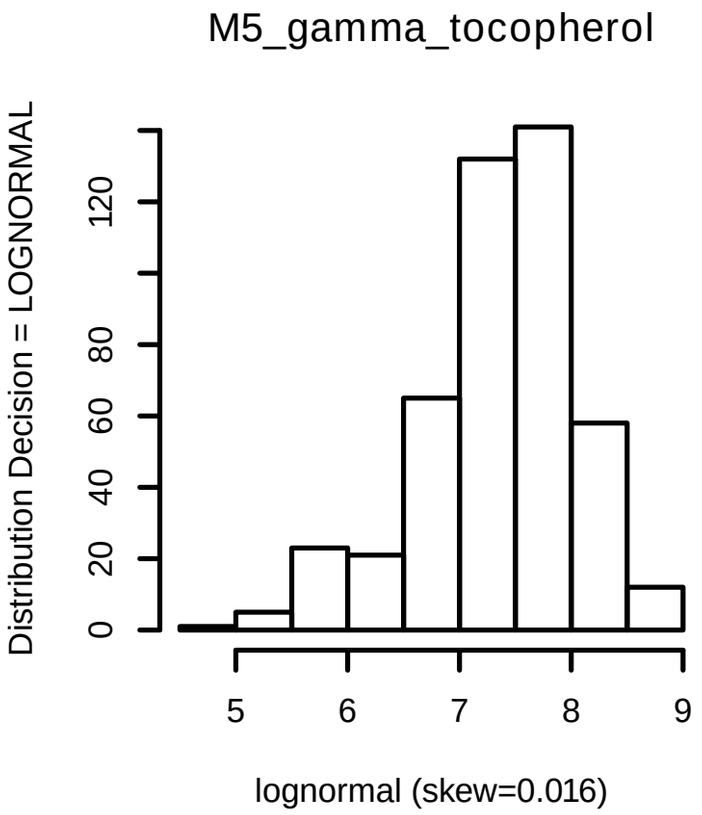

M5_elaidic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
5000
15000
25000
normal (skew=1)

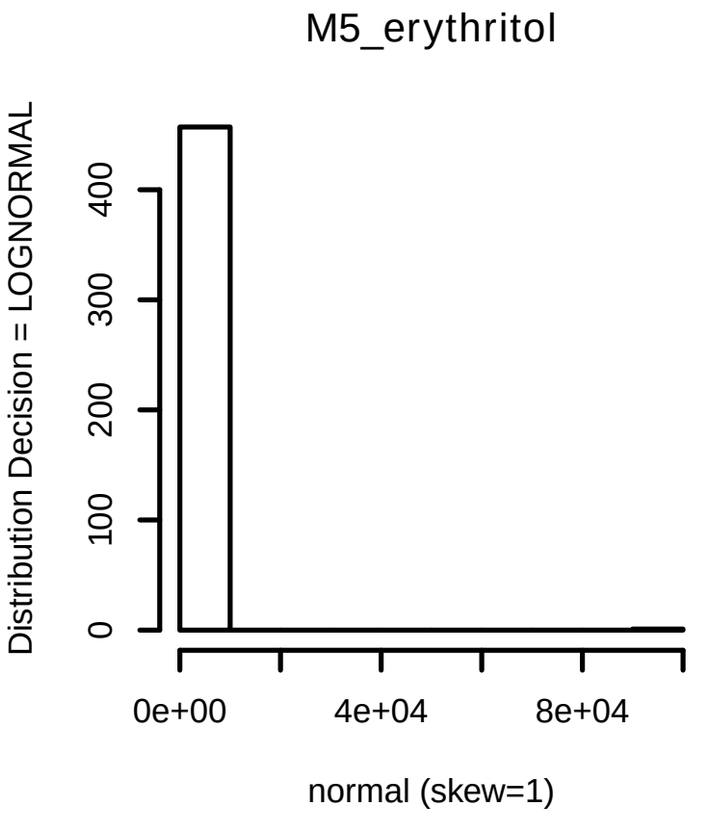

M5_elaidic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
2
4
6
8
10
lognormal (skew=0.055)

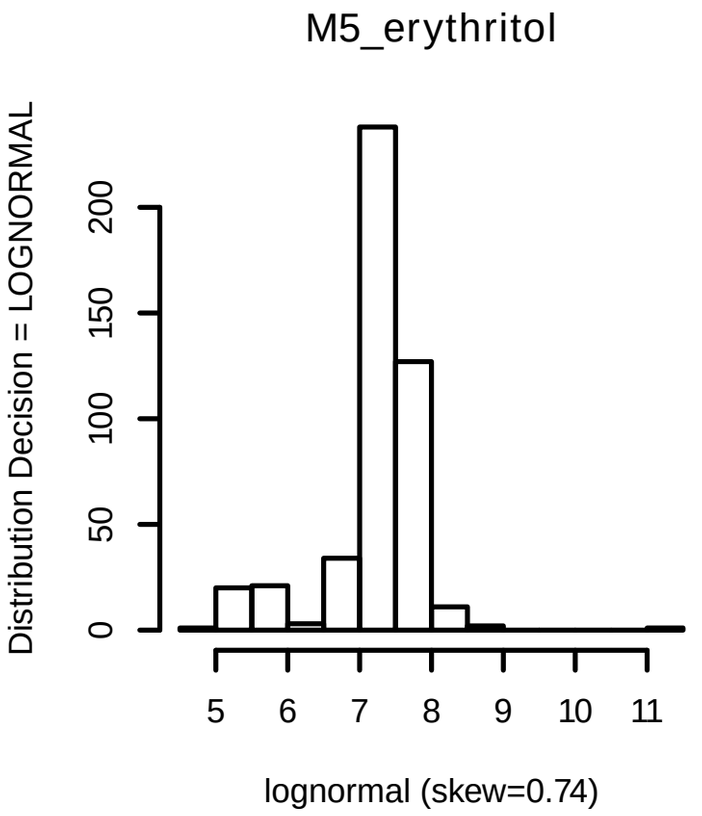

M5_arachidonic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
0
10000
30000
normal (skew=1)

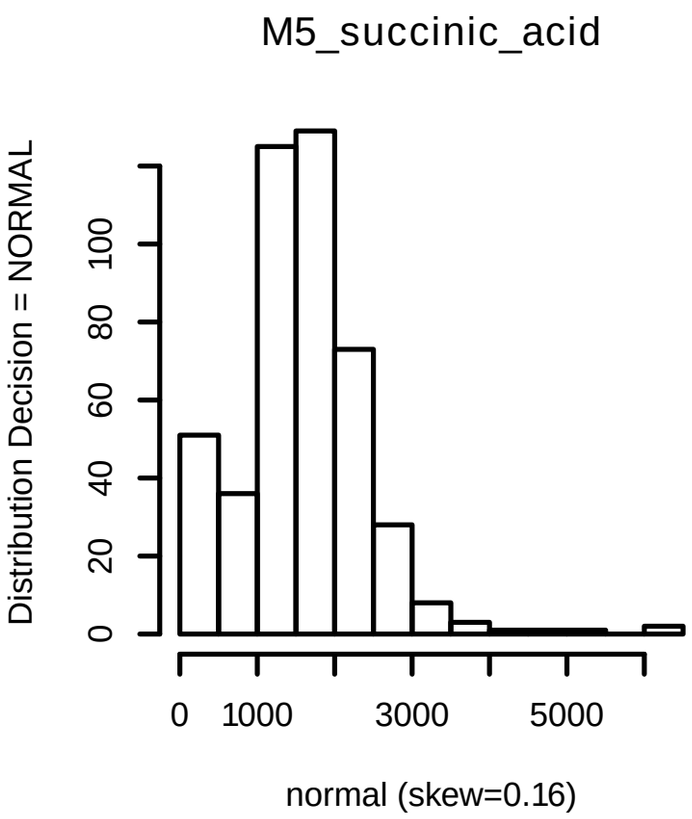

M5_arachidonic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
4
6
8
10
lognormal (skew=0.37)

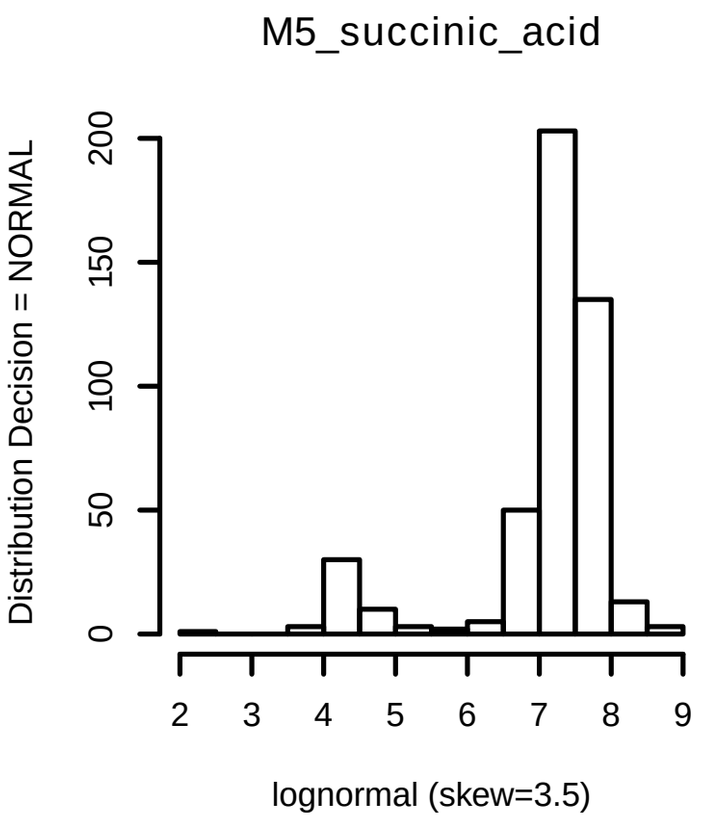

M5_gamma_tocopherol
Distribution Decision = LOGNORMAL
0
50
100
150
0
2000
4000
6000
8000
normal (skew=0.11)

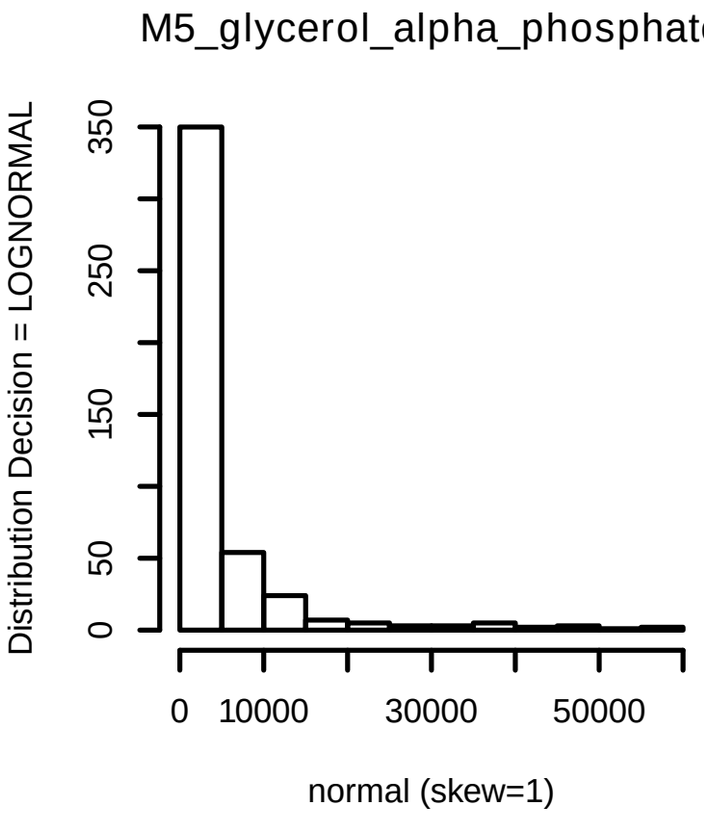

M5_gamma_tocopherol
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
5
6
7
8
9
lognormal (skew=0.016)

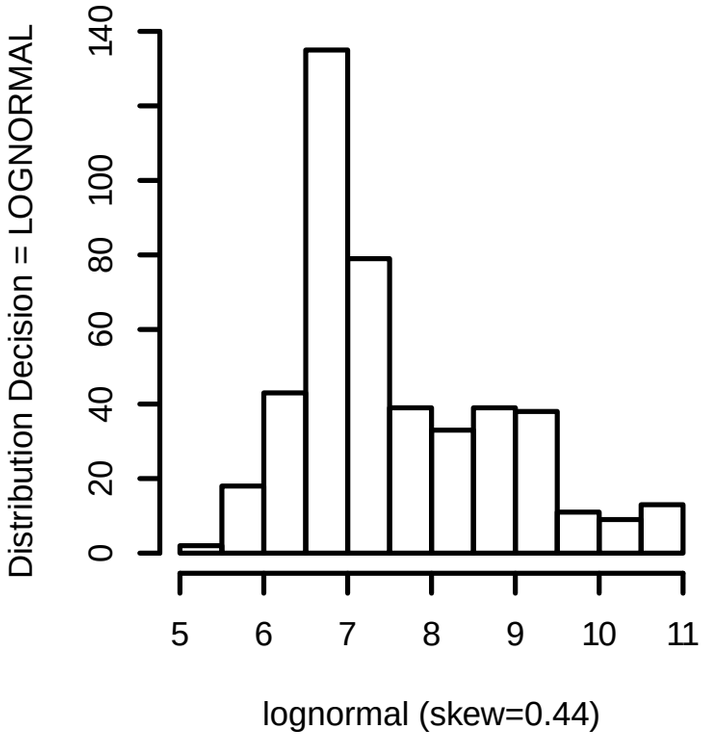

M5_erythritol
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
4e+04
8e+04
normal (skew=1)

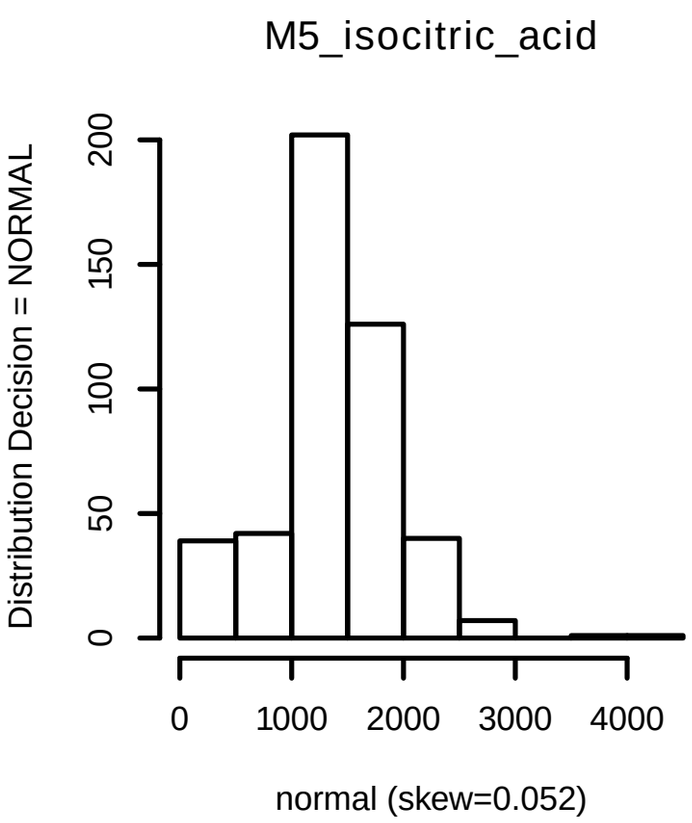

M5_erythritol
Distribution Decision = LOGNORMAL
0
50
100
150
200
5
6
7
8
9
10
11
lognormal (skew=0.74)

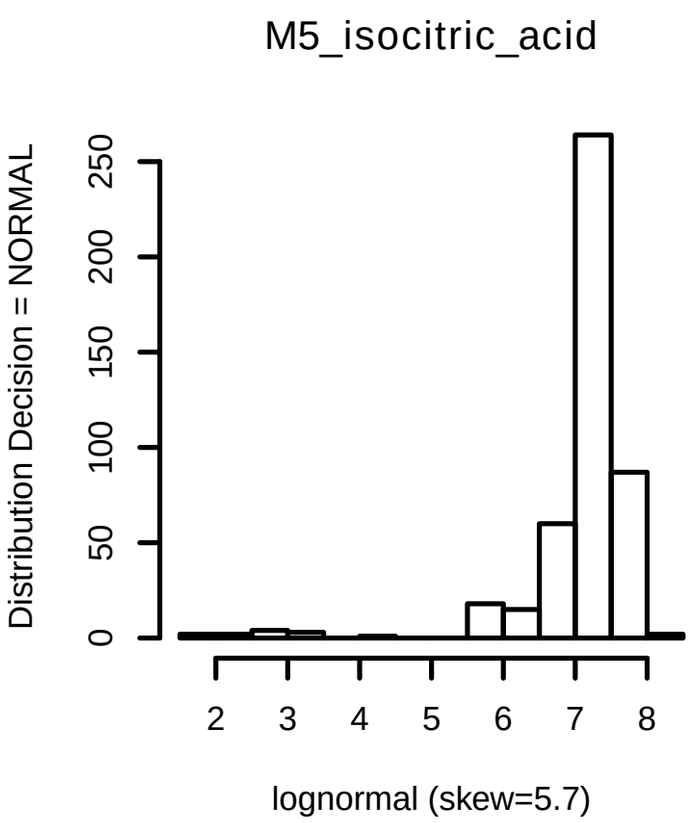

M5_succinic_acid
Distribution Decision = NORMAL
0
20
40
60
80
100
0
1000
3000
5000
normal (skew=0.16)

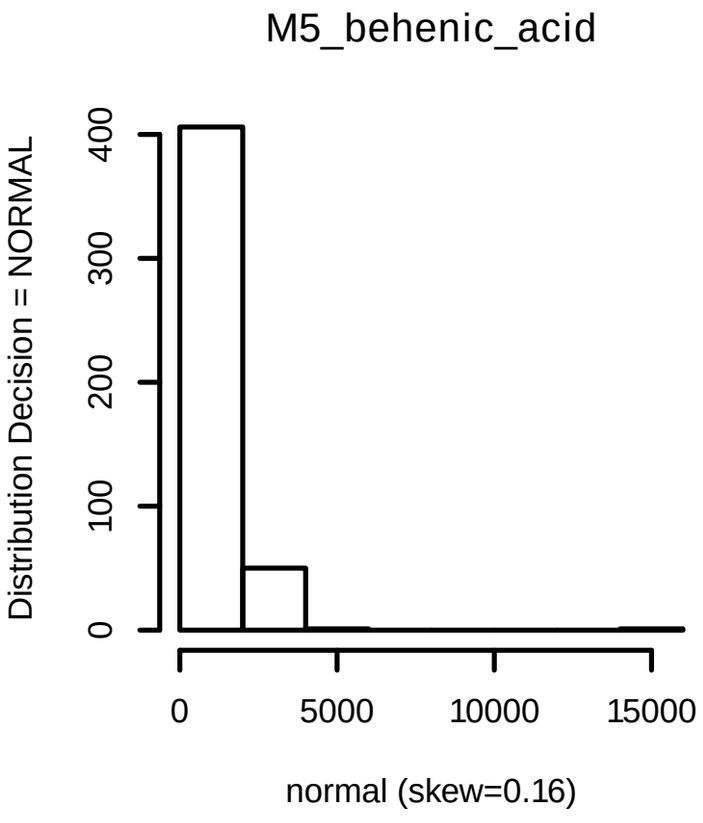

M5_succinic_acid
Distribution Decision = NORMAL
0
50
100
150
200
2
3
4
5
6
7
8
9
lognormal (skew=3.5)

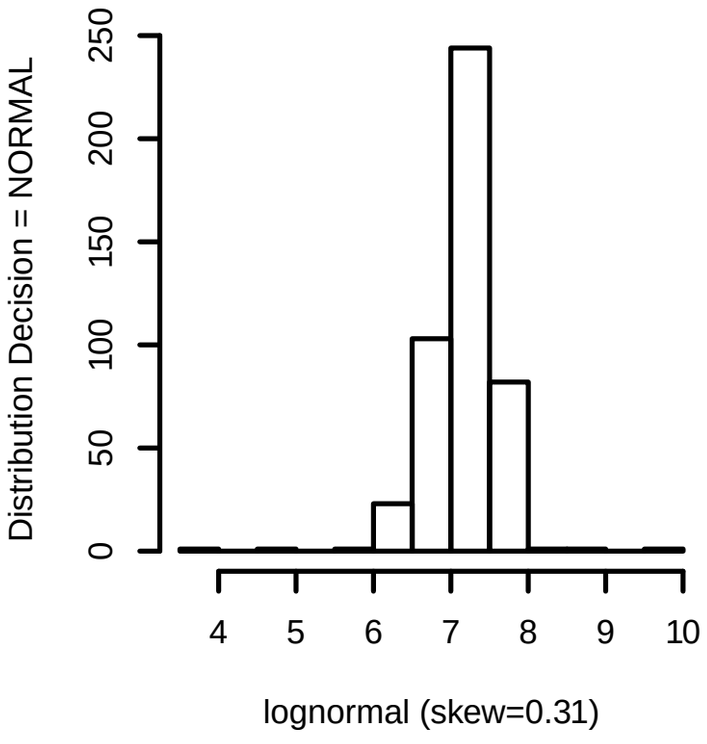

M5_glycerol_alpha_phosphate
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
10000
30000
50000
normal (skew=1)

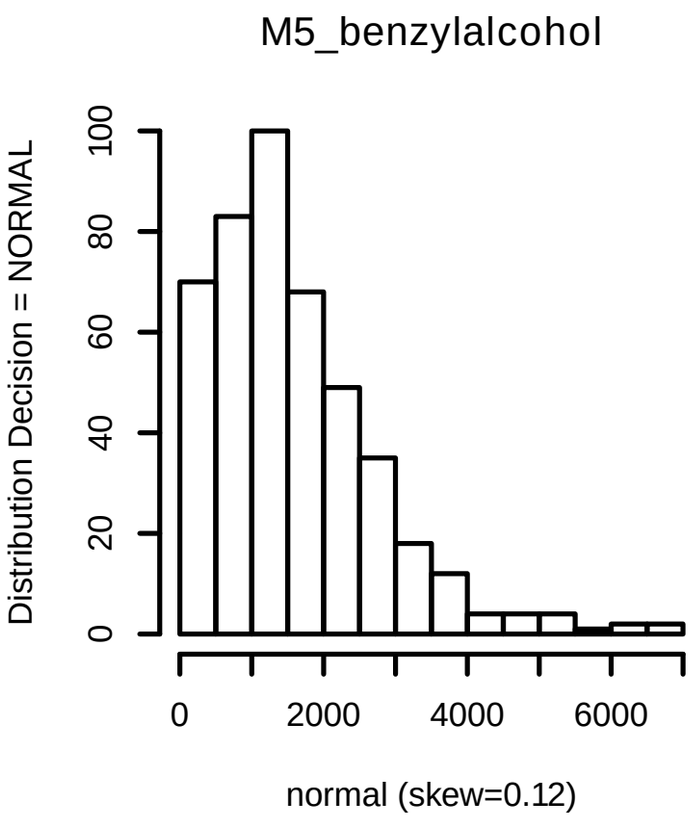

M5_glycerol_alpha_phosphate
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
5
6
7
8
9
10
11
lognormal (skew=0.44)

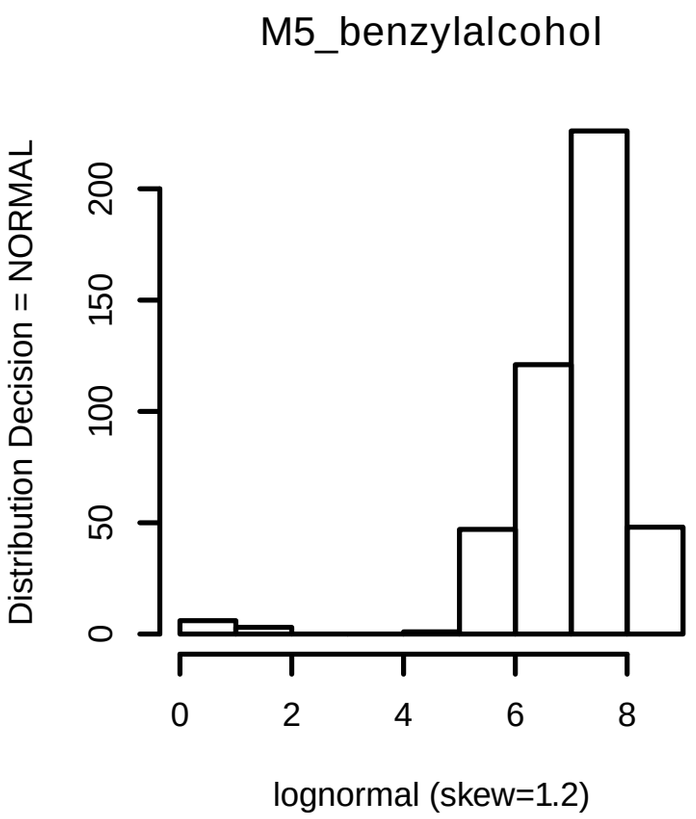

M5_isocitric_acid
Distribution Decision = NORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.052)

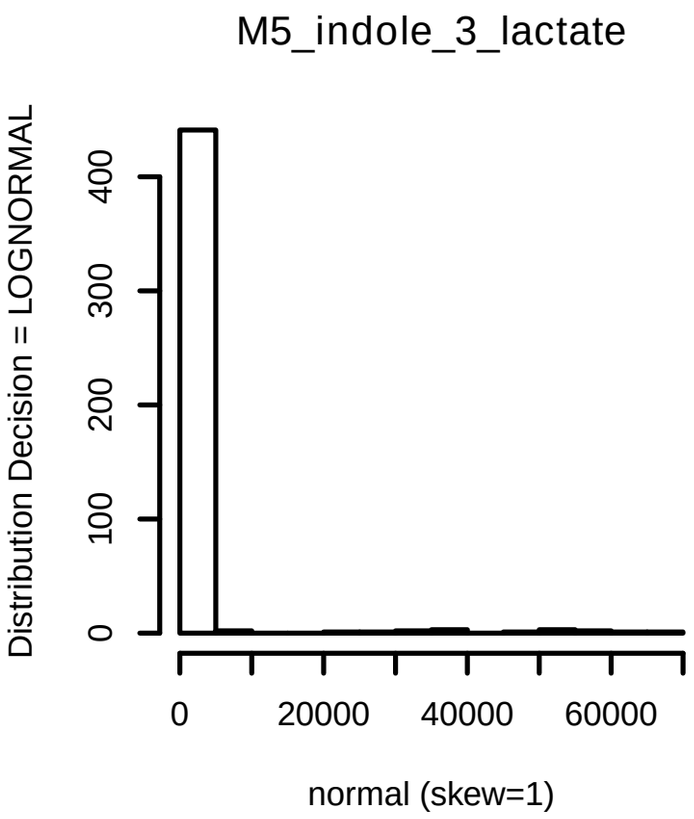

M5_isocitric_acid
Distribution Decision = NORMAL
0
50
100
150
200
250
2
3
4
5
6
7
8
lognormal (skew=5.7)

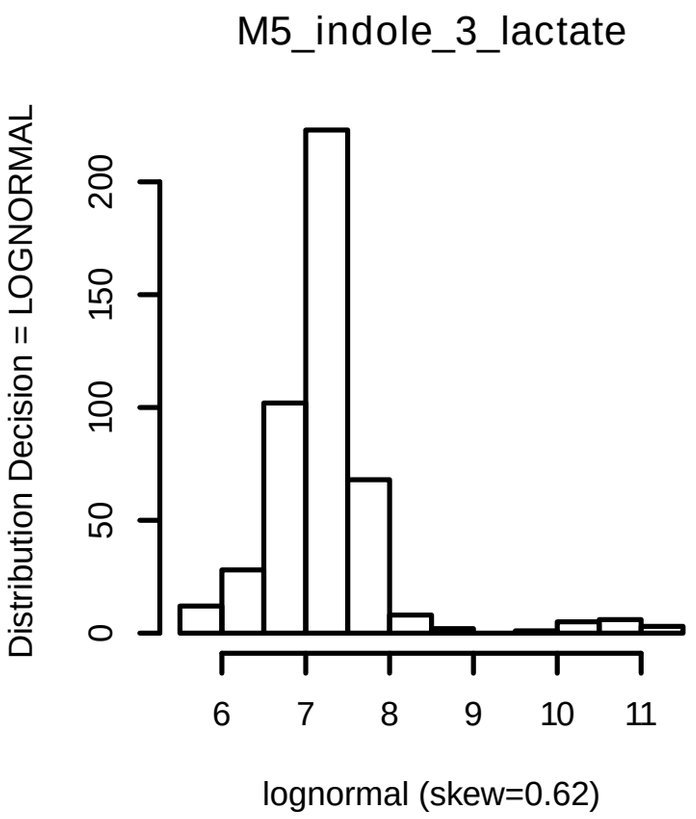

M5_behenic_acid
Distribution Decision = NORMAL
0
100
200
300
400
0
5000
10000
15000
normal (skew=0.16)

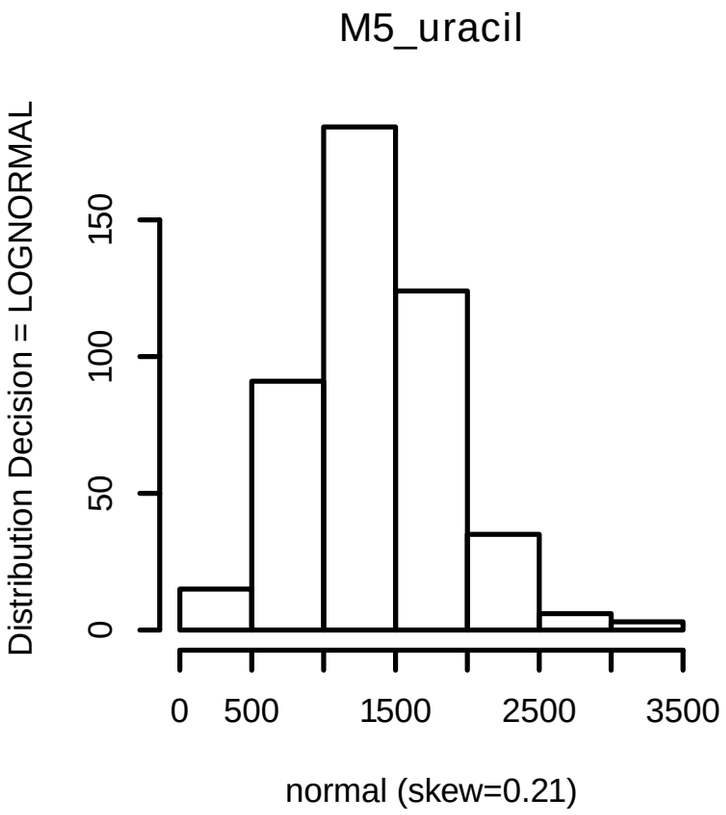

M5_behenic_acid
Distribution Decision = NORMAL
0
50
100
150
200
250
4
5
6
7
8
9
10
lognormal (skew=0.31)

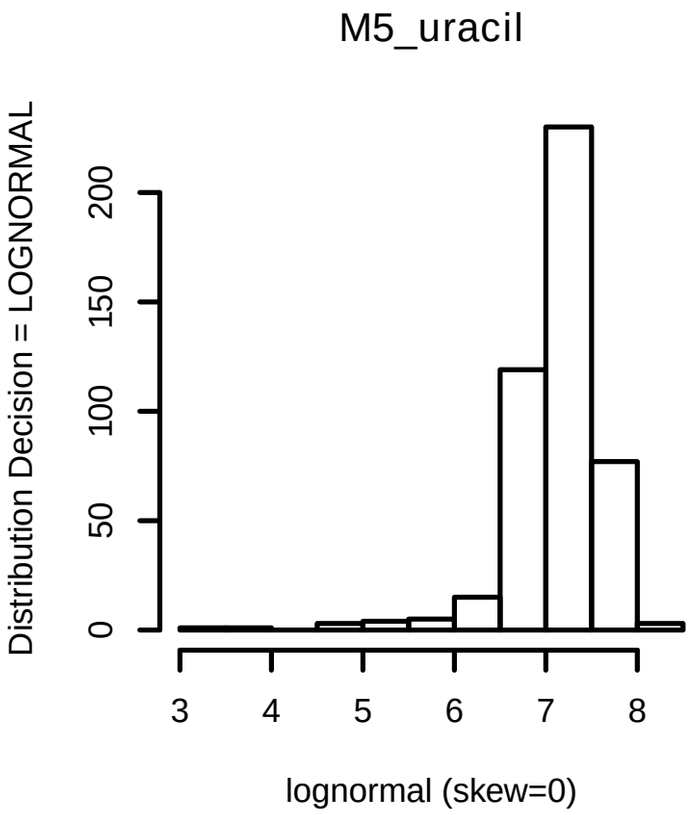

M5_benzylalcohol
Distribution Decision = NORMAL
0
20
40
60
80
100
0
2000
4000
6000
normal (skew=0.12)

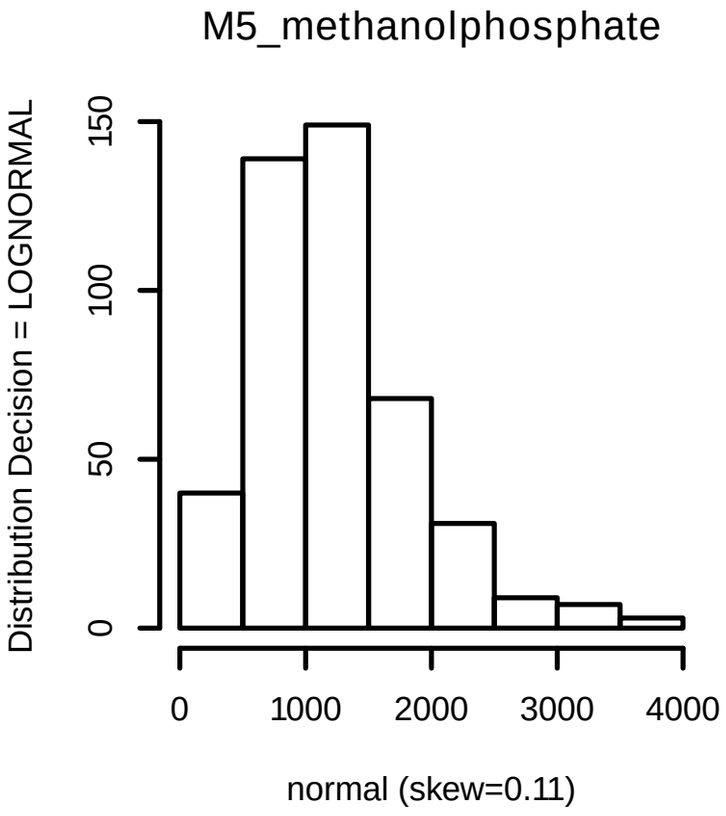

M5_benzylalcohol
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=1.2)

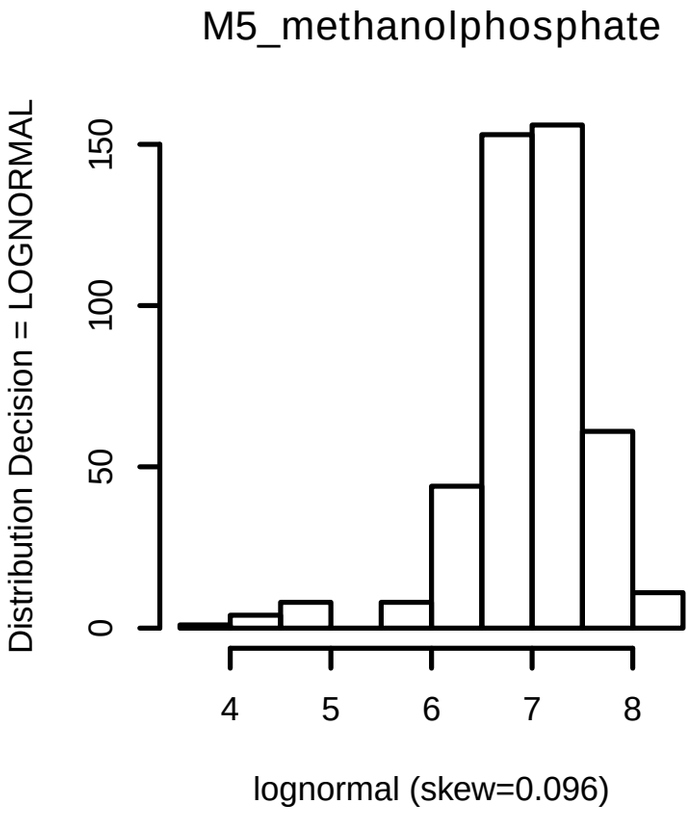

M5_indole_3_lactate
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
20000
40000
60000
normal (skew=1)

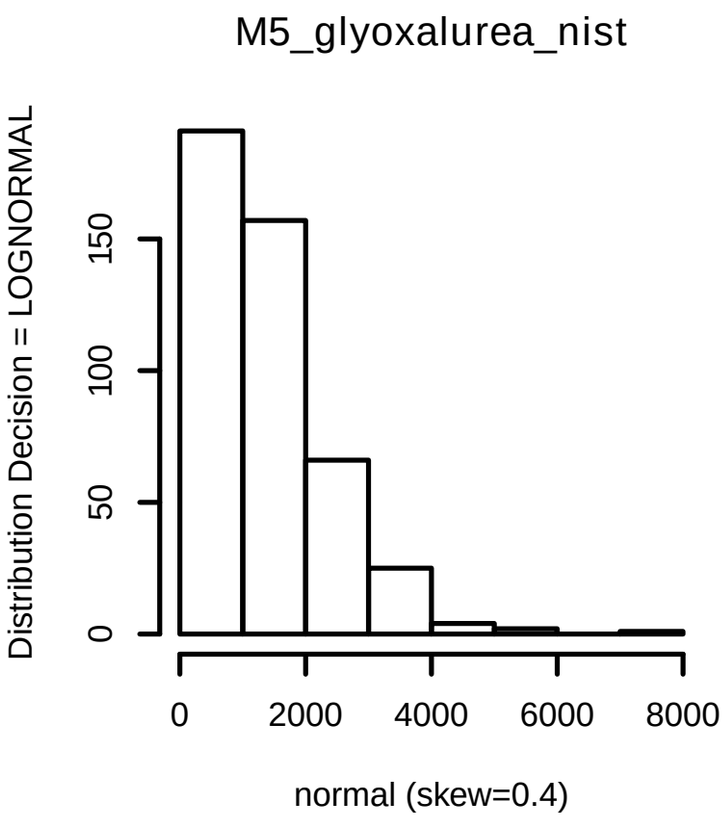

M5_indole_3_lactate
Distribution Decision = LOGNORMAL
0
50
100
150
200
6
7
8
9
10
11
lognormal (skew=0.62)

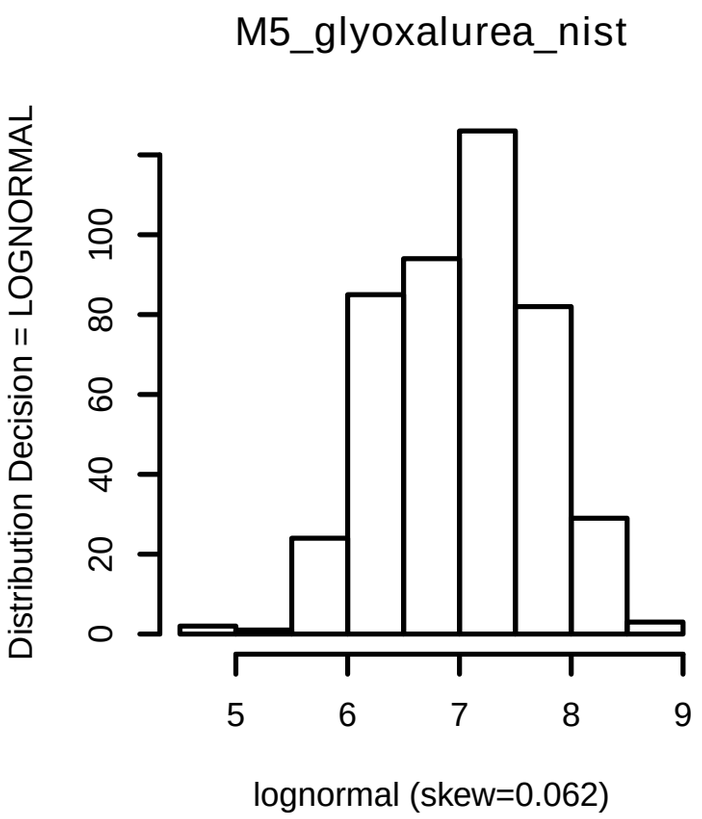

M5_uracil
Distribution Decision = LOGNORMAL
0
50
100
150
0
500
1500
2500
3500
normal (skew=0.21)

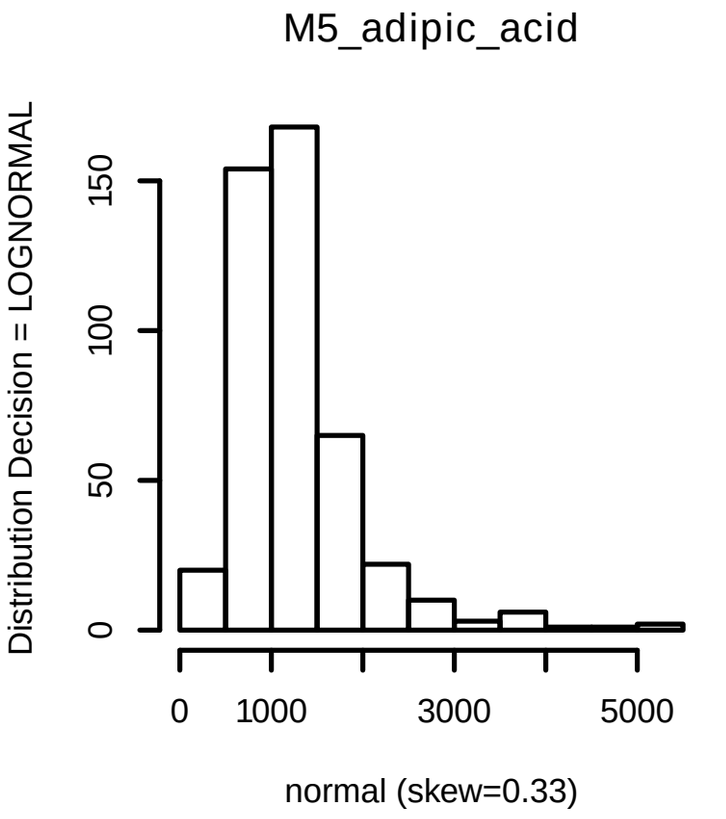

M5_uracil
Distribution Decision = LOGNORMAL
0
50
100
150
200
3
4
5
6
7
8
lognormal (skew=0)

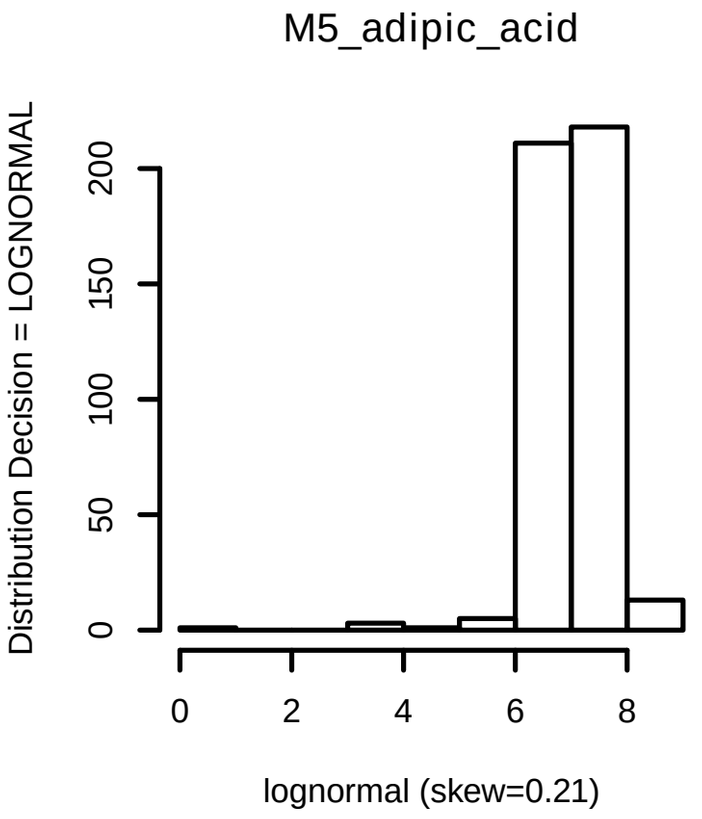

M5_methanolphosphate
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.11)

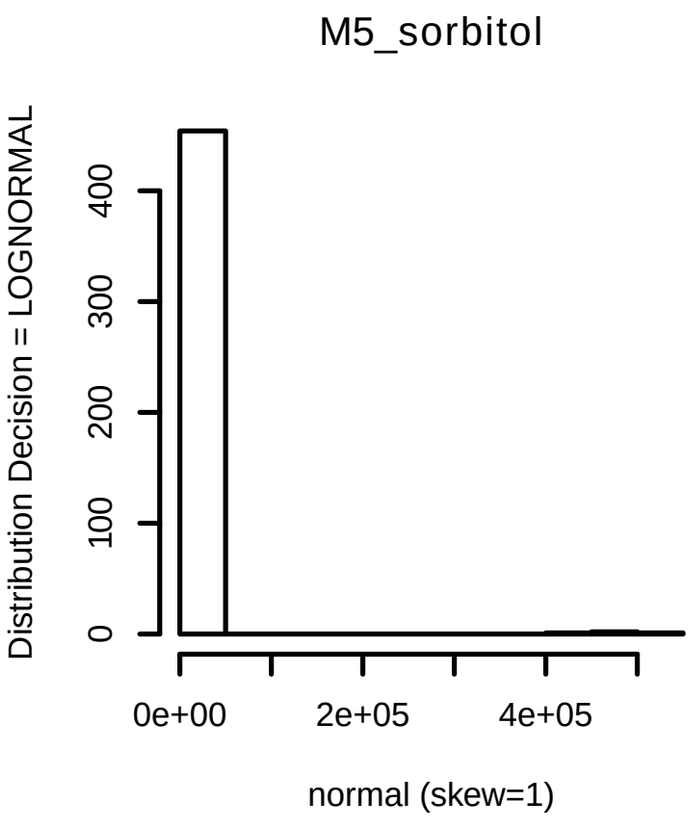

M5_methanolphosphate
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.096)

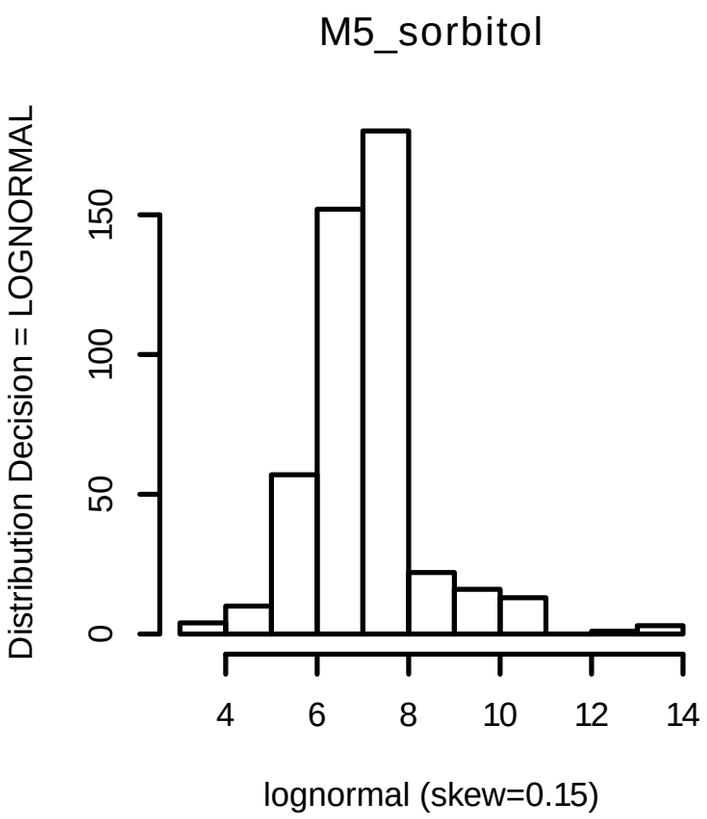

M5_glyoxalurea_nist
Distribution Decision = LOGNORMAL
0
50
100
150
0
2000
4000
6000
8000
normal (skew=0.4)

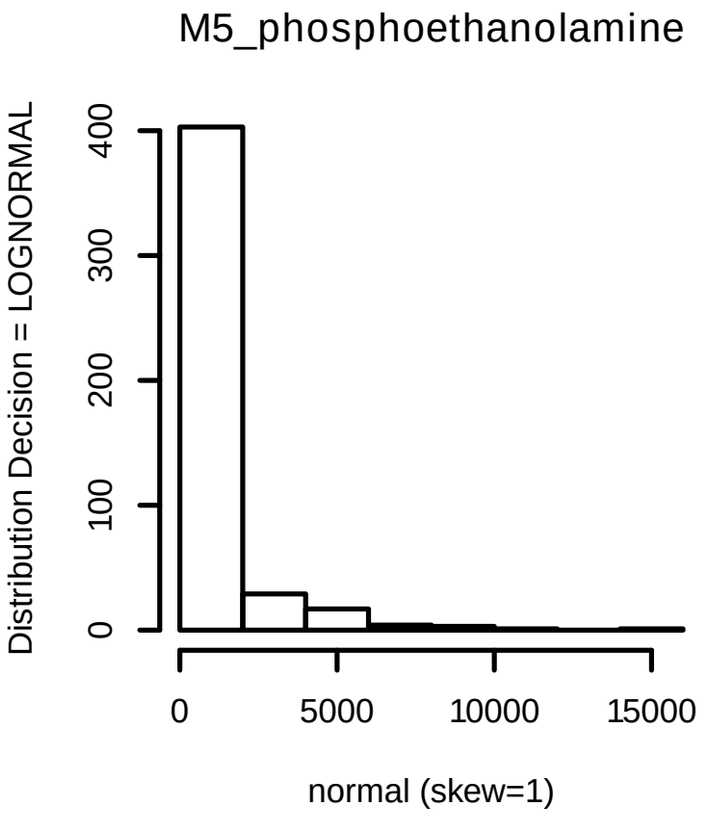

M5_glyoxalurea_nist
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
5
6
7
8
9
lognormal (skew=0.062)

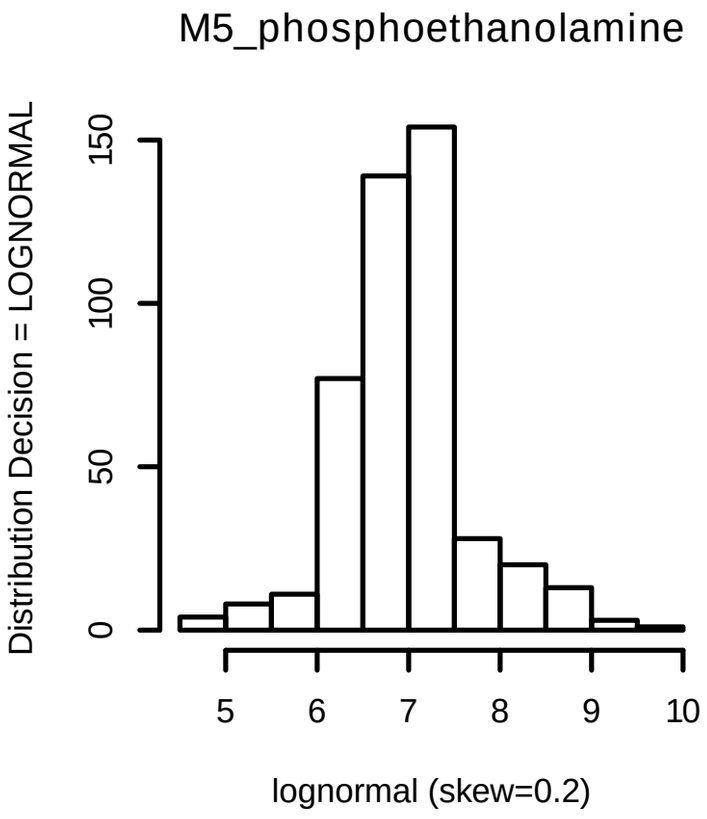

M5_adipic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
3000
5000
normal (skew=0.33)

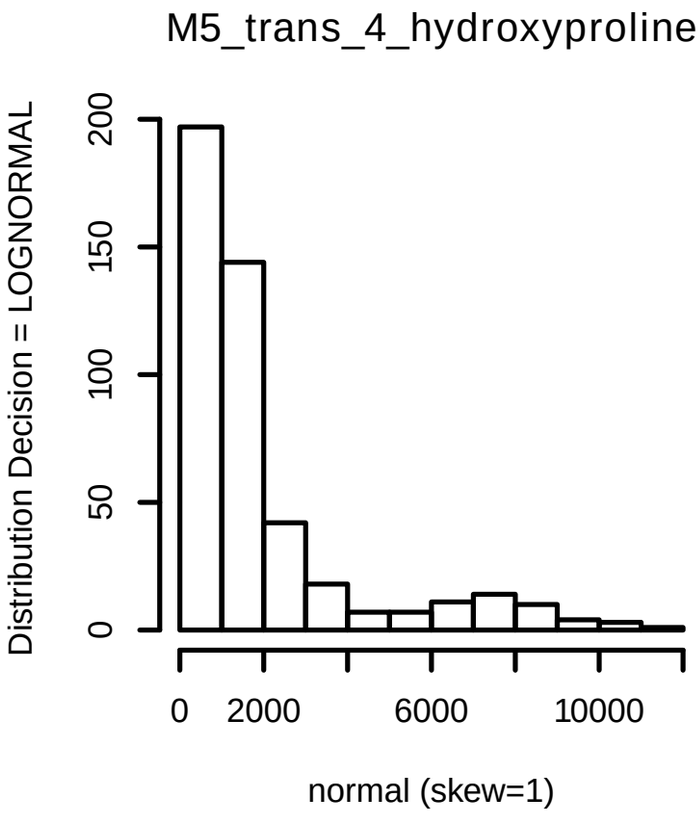

M5_adipic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.21)

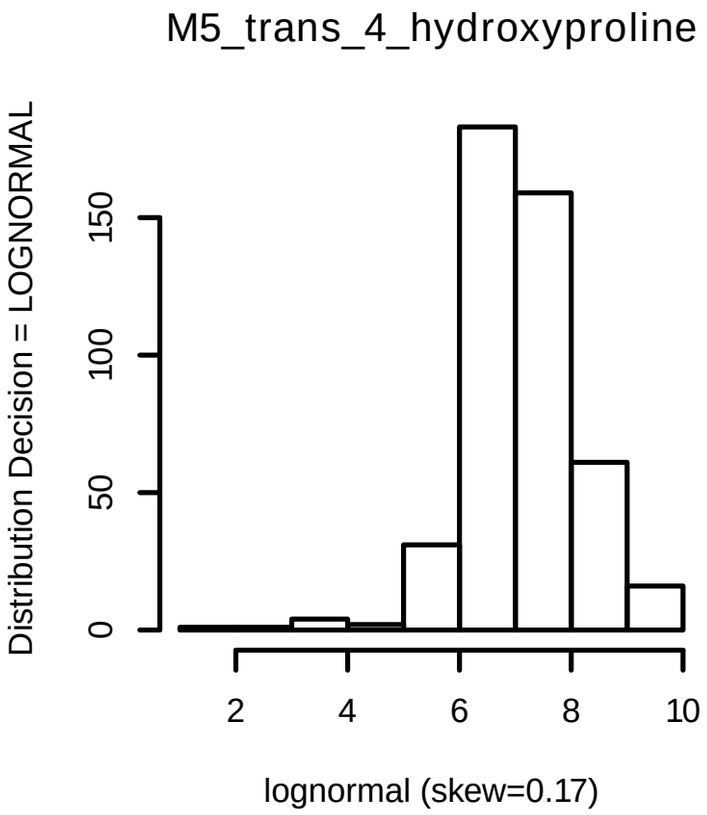

M5_sorbitol
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
2e+05
4e+05
normal (skew=1)

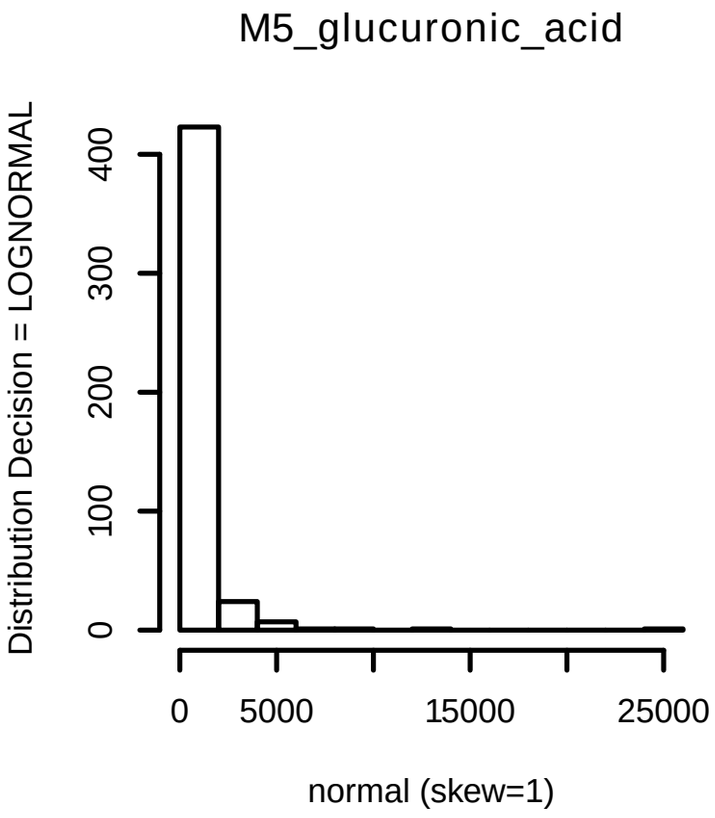

M5_sorbitol
Distribution Decision = LOGNORMAL
0
50
100
150
4
6
8
10
12
14
lognormal (skew=0.15)

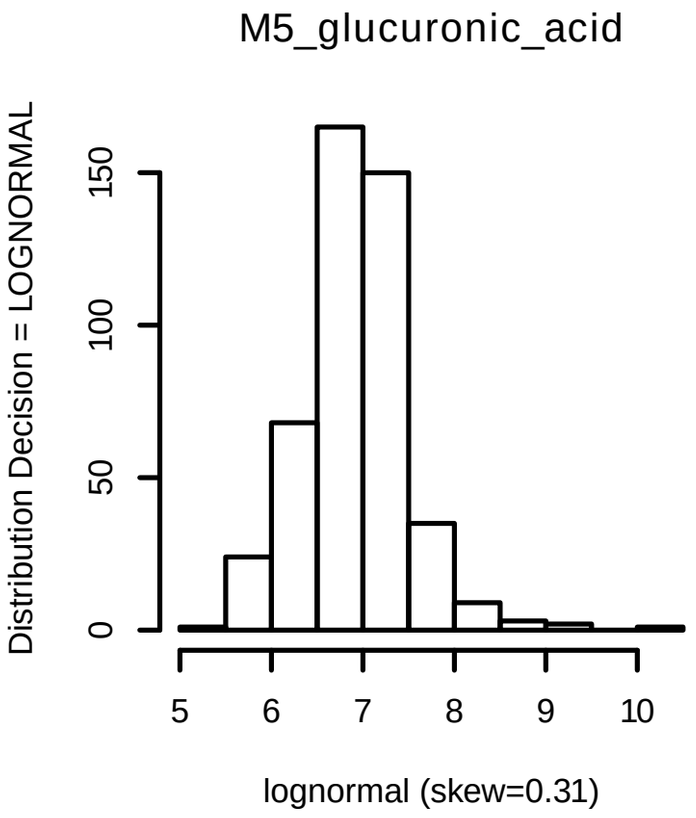

M5_phosphoethanolamine
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
15000
normal (skew=1)

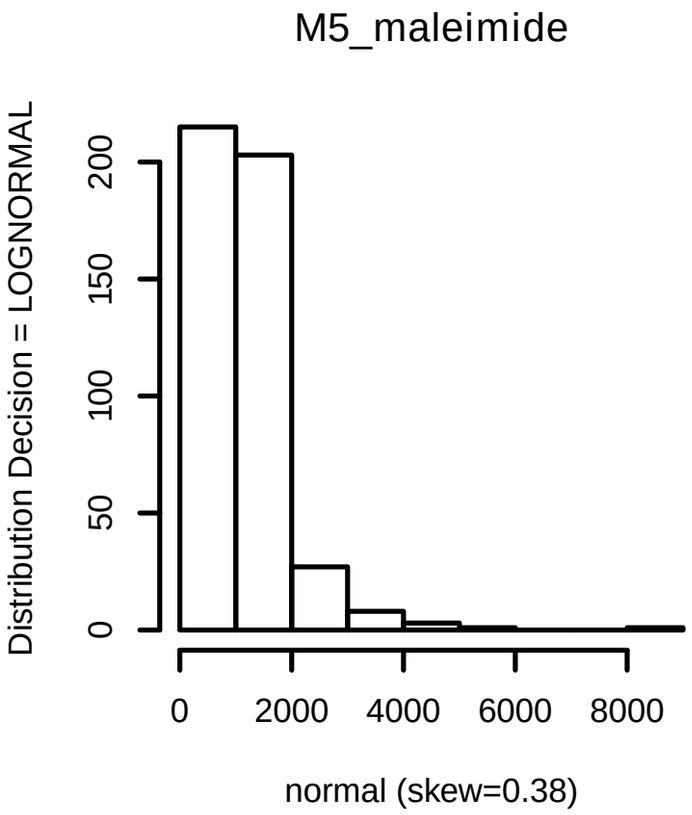

M5_phosphoethanolamine
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
10
lognormal (skew=0.2)

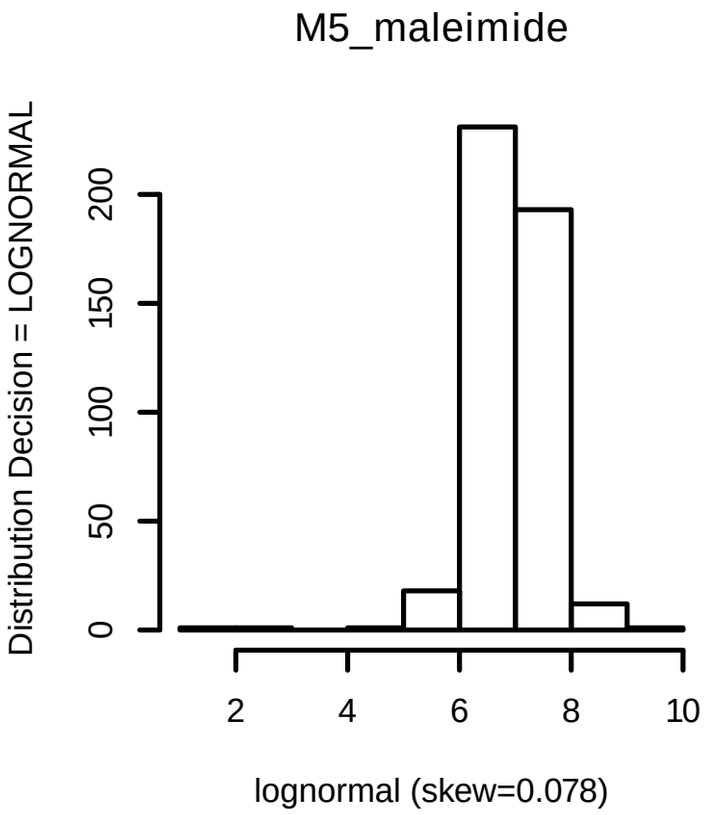

M5_trans_4_hydroxyproline
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2000
6000
10000
normal (skew=1)

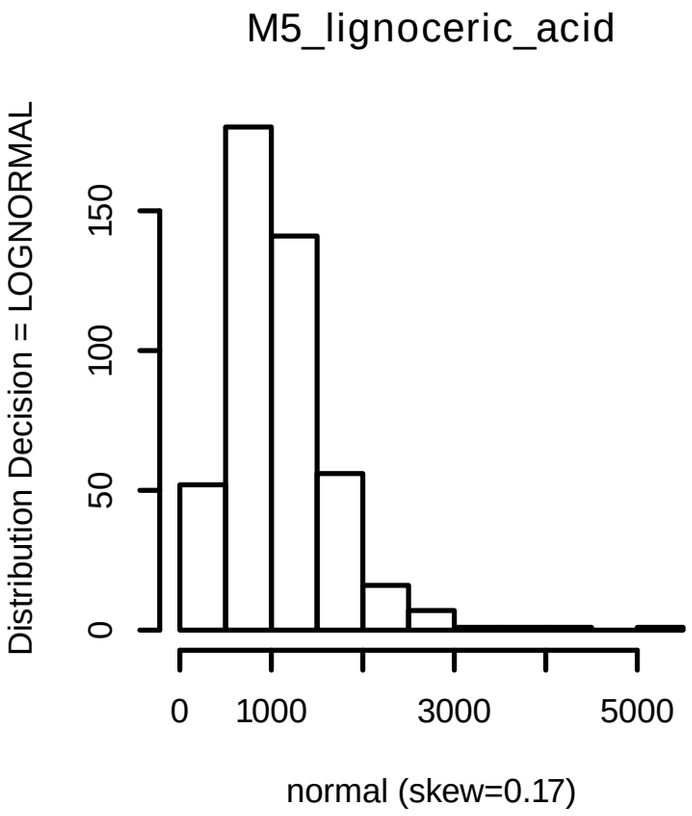

M5_trans_4_hydroxyproline
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=0.17)

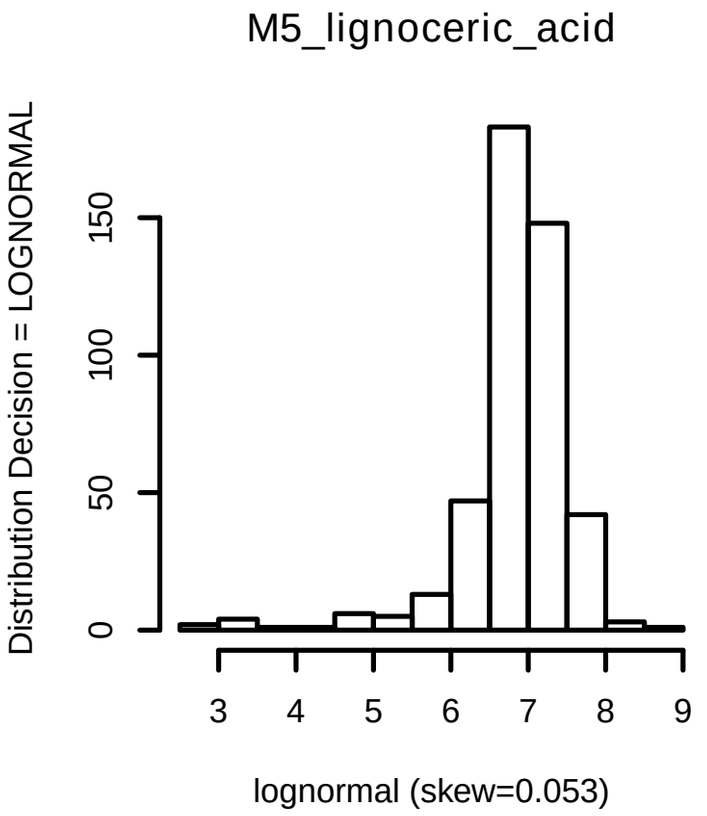

M5_glucuronic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
15000
25000
normal (skew=1)

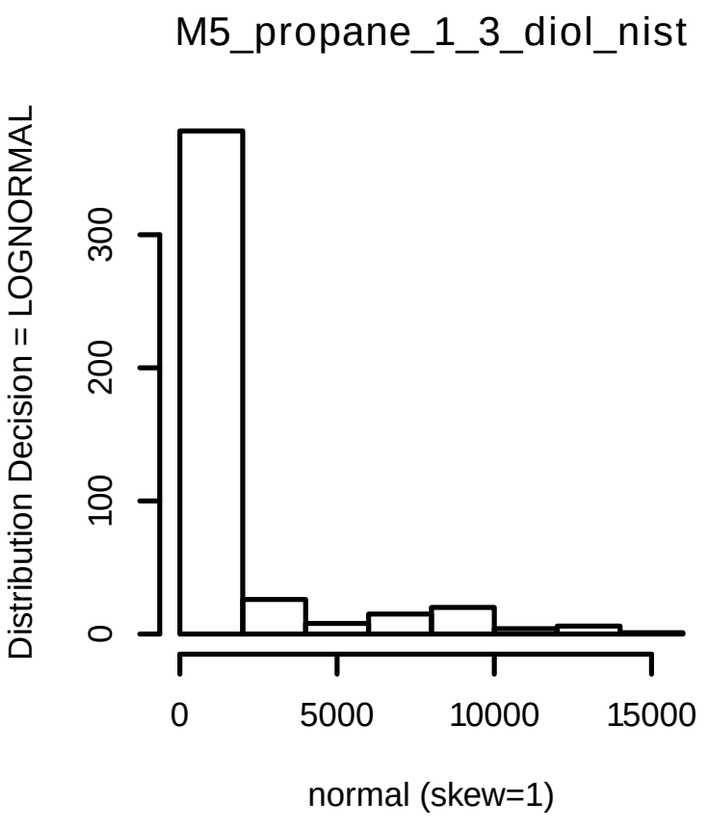

M5_glucuronic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
10
lognormal (skew=0.31)

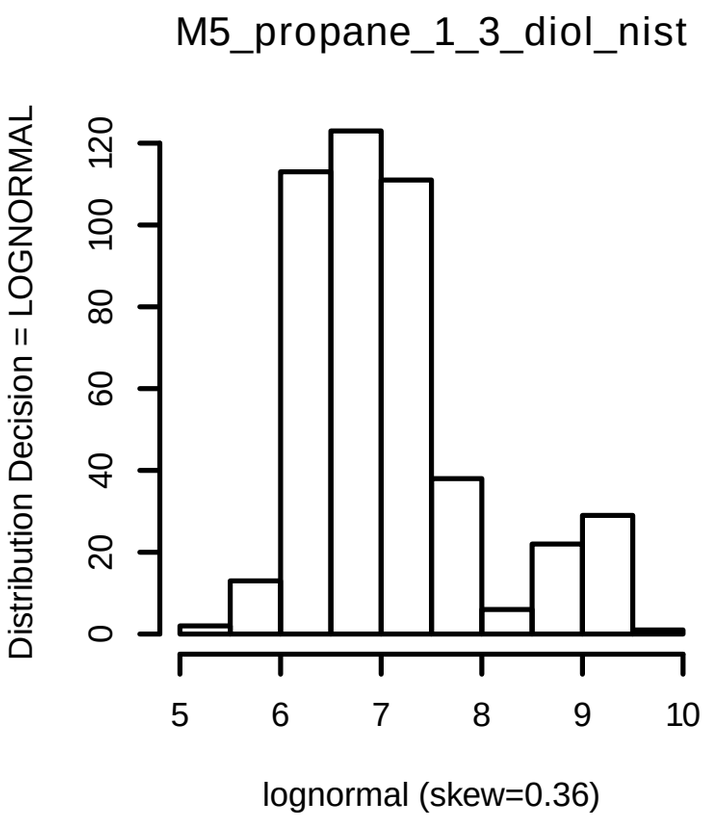

M5_maleimide
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2000
4000
6000
8000
normal (skew=0.38)

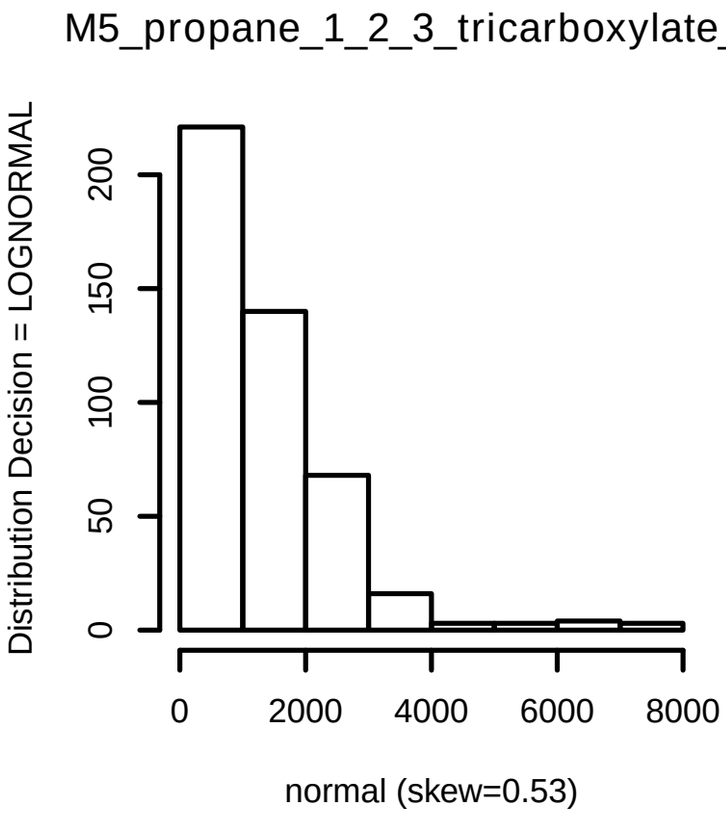

M5_maleimide
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
10
lognormal (skew=0.078)

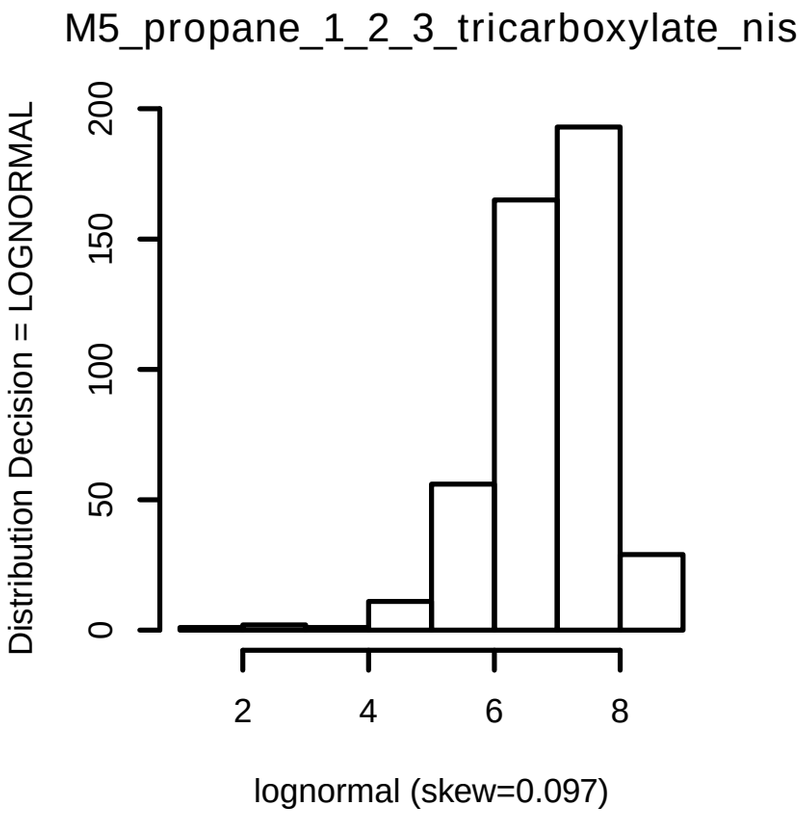

M5_lignoceric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
3000
5000
normal (skew=0.17)

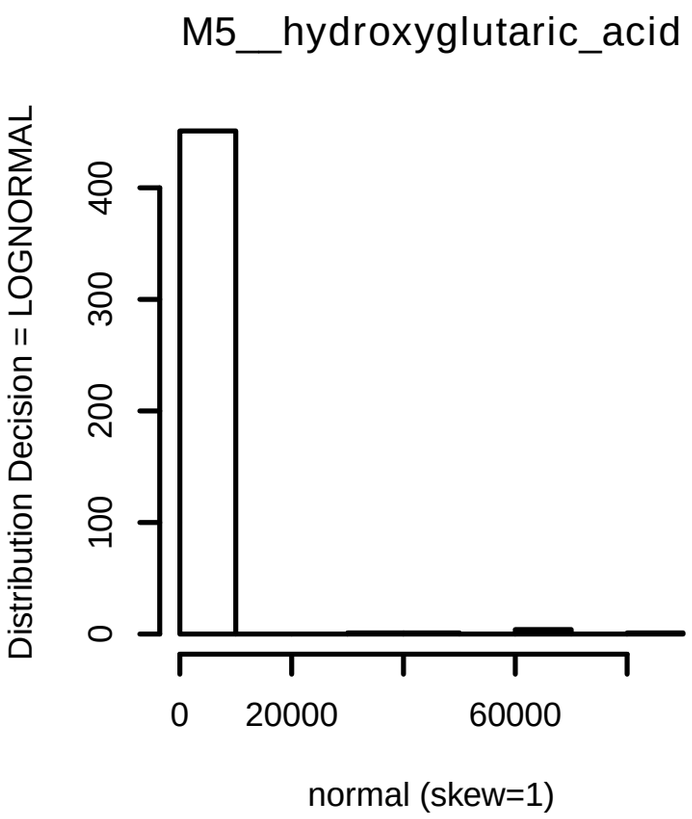

M5_lignoceric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
3
4
5
6
7
8
9
lognormal (skew=0.053)

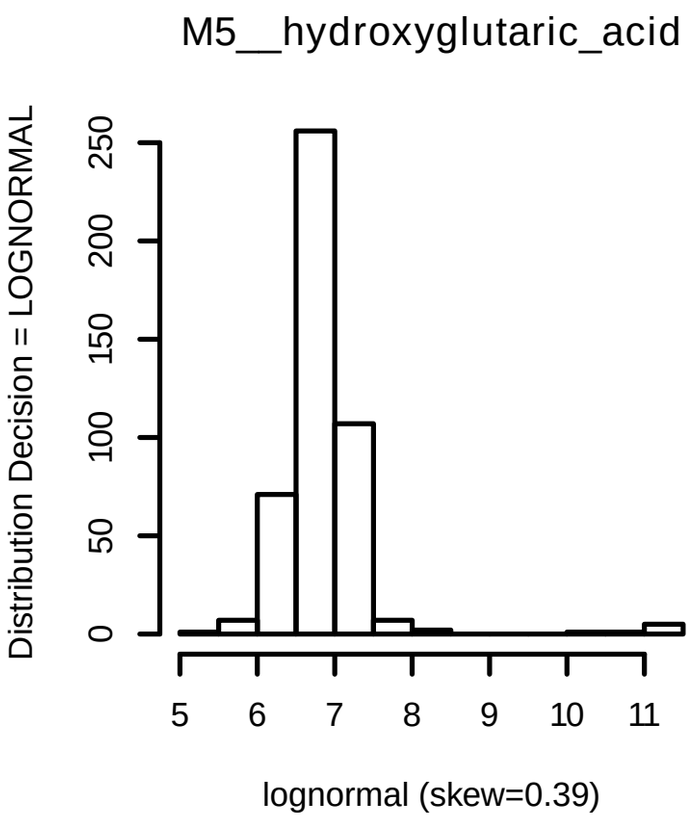

M5_propane_1_3_diol_nist
Distribution Decision = LOGNORMAL
0
100
200
300
0
5000
10000
15000
normal (skew=1)

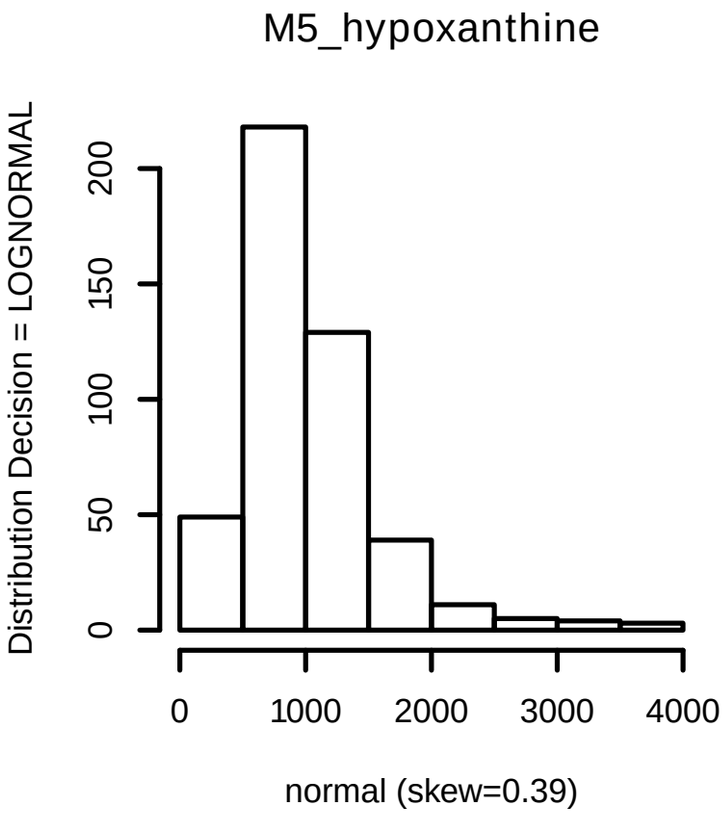

M5_propane_1_3_diol_nist
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
5
6
7
8
9
10
lognormal (skew=0.36)

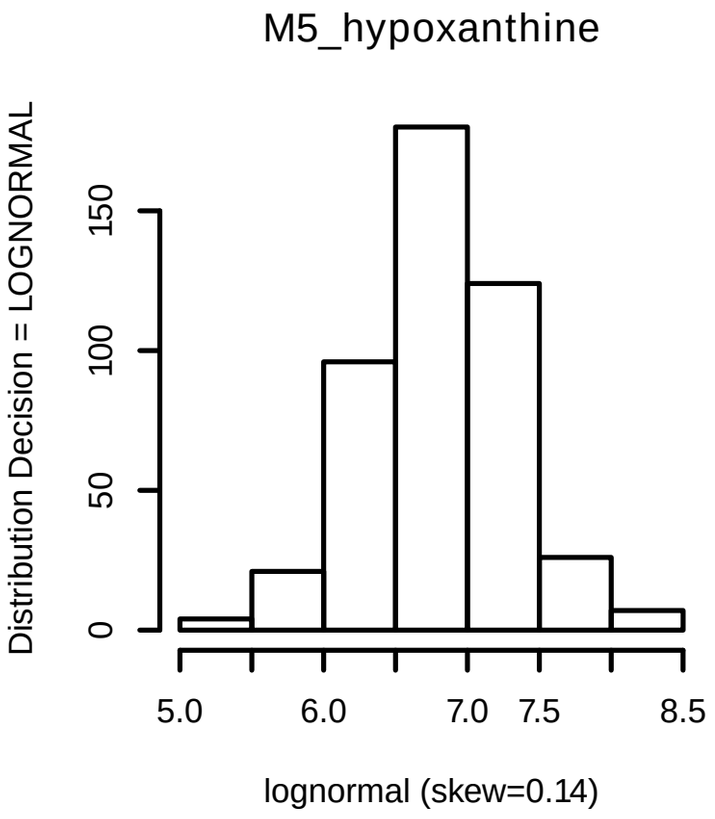

M5_propane_1_2_3_tricarboxylate_nis
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2000
4000
6000
8000
normal (skew=0.53)

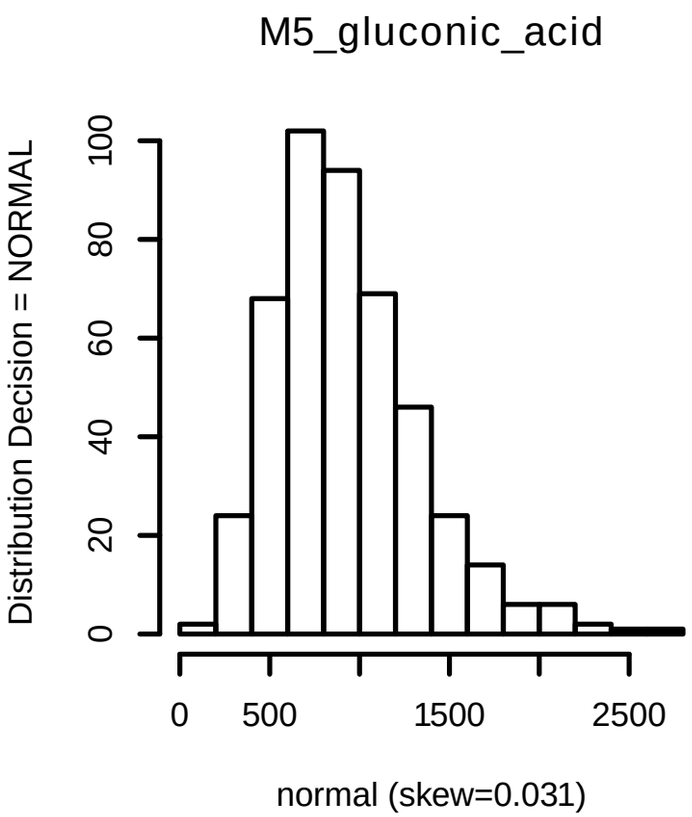

M5_propane_1_2_3_tricarboxylate_nis
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
lognormal (skew=0.097)

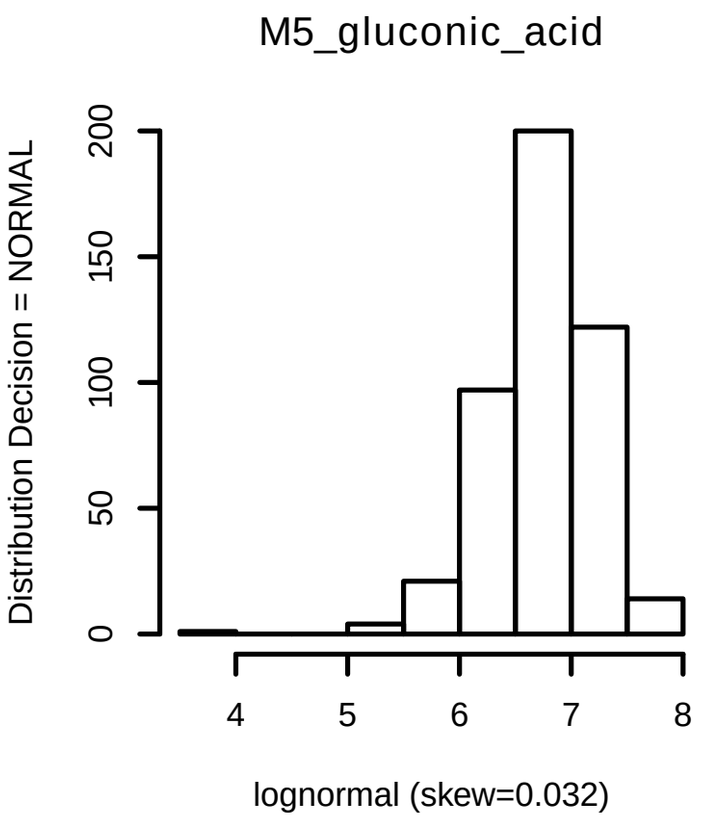

M5__hydroxyglutaric_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
20000
60000
normal (skew=1)

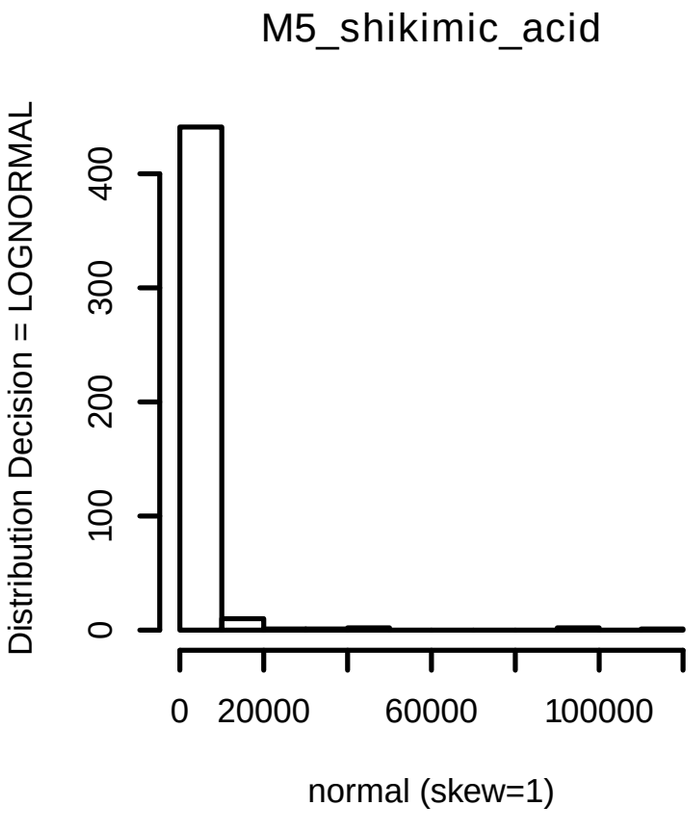

M5__hydroxyglutaric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
5
6
7
8
9
10
11
lognormal (skew=0.39)

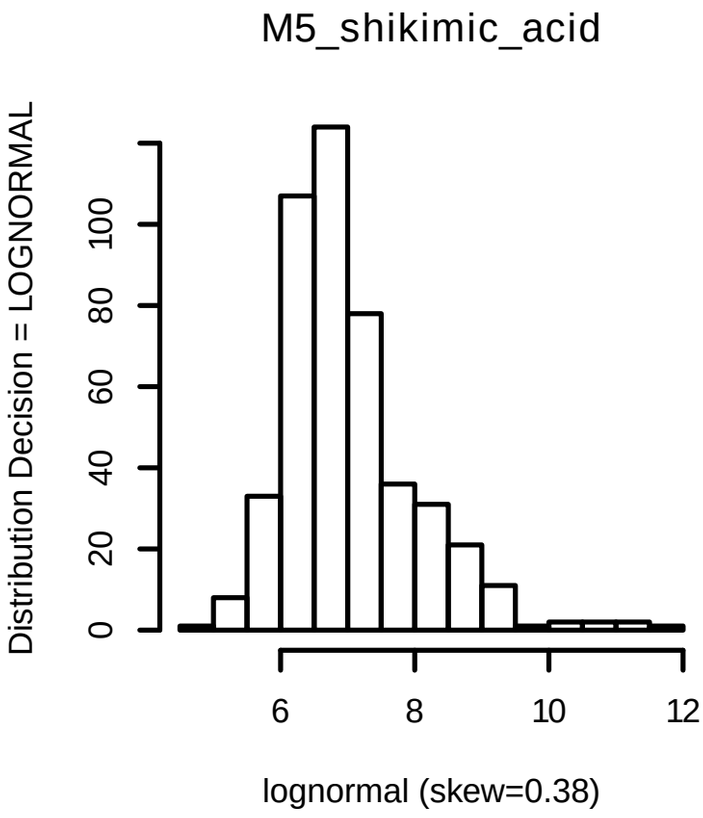

M5_hypoxanthine
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.39)

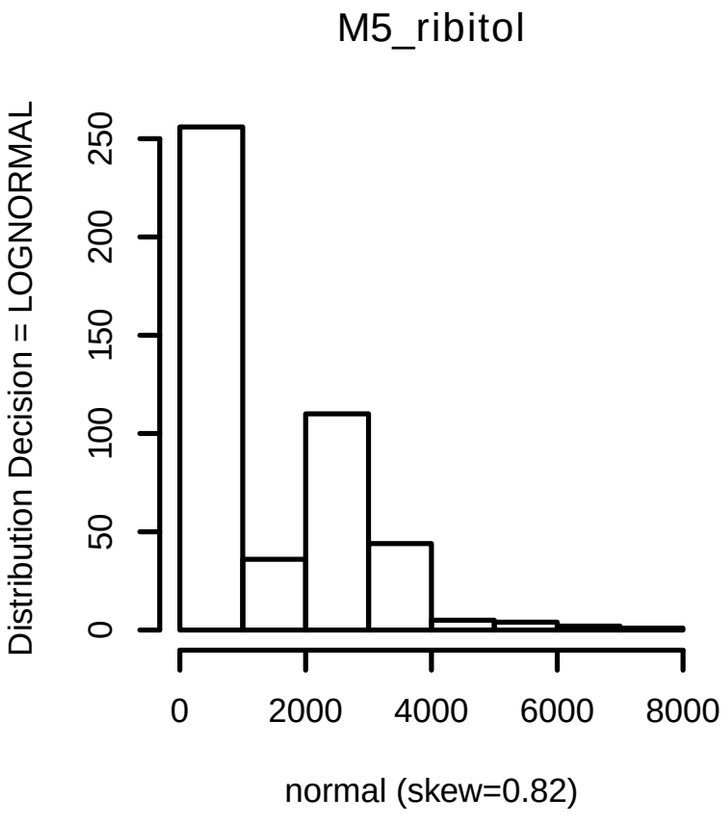

M5_hypoxanthine
Distribution Decision = LOGNORMAL
0
50
100
150
5.0
6.0
7.0
7.5
8.5
lognormal (skew=0.14)

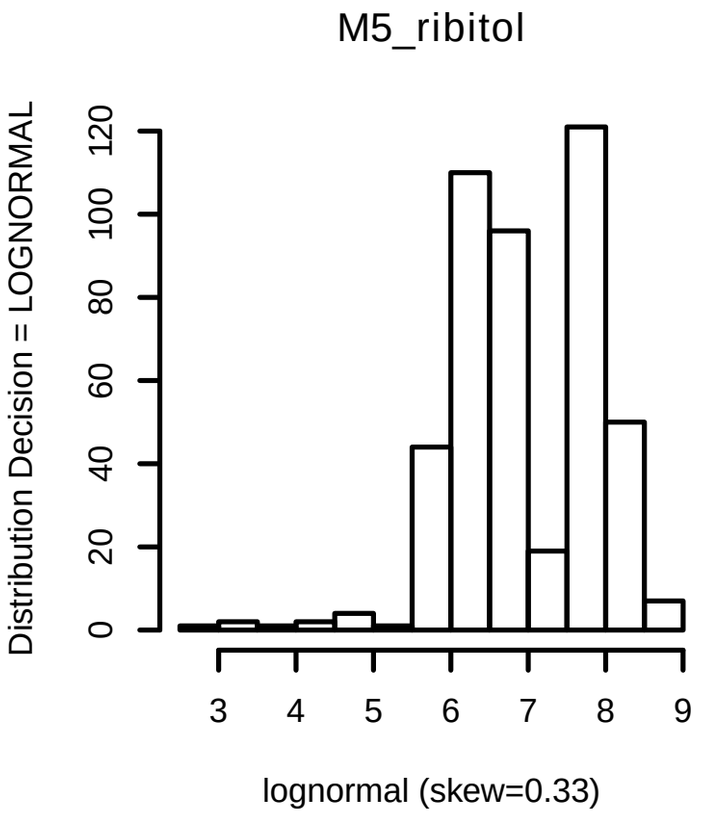

M5_gluconic_acid
Distribution Decision = NORMAL
0
20
40
60
80
100
0
500
1500
2500
normal (skew=0.031)

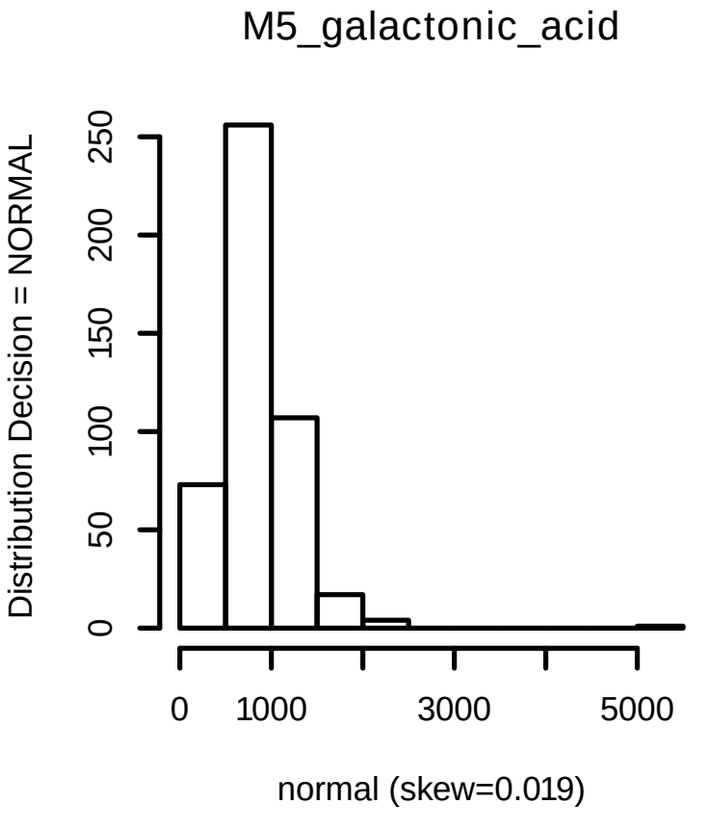

M5_gluconic_acid
Distribution Decision = NORMAL
0
50
100
150
200
4
5
6
7
8
lognormal (skew=0.032)

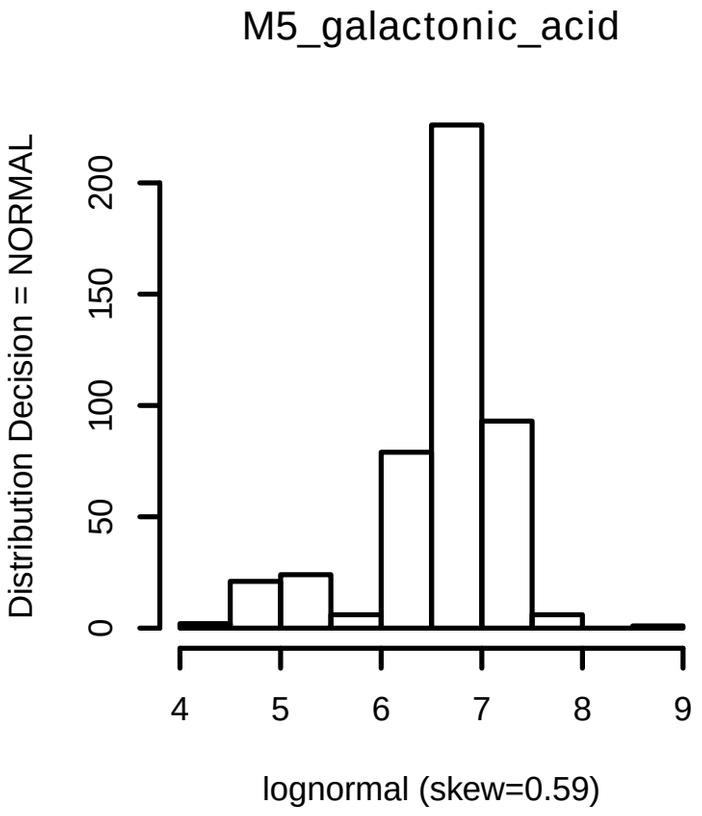

M5_shikimic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
20000
60000
100000
normal (skew=1)

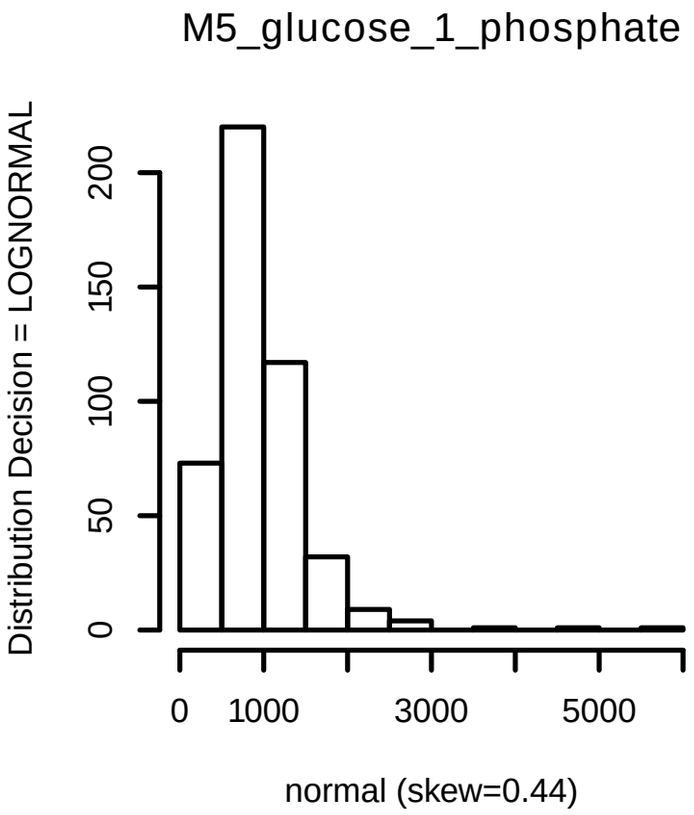

M5_shikimic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
8
10
12
lognormal (skew=0.38)

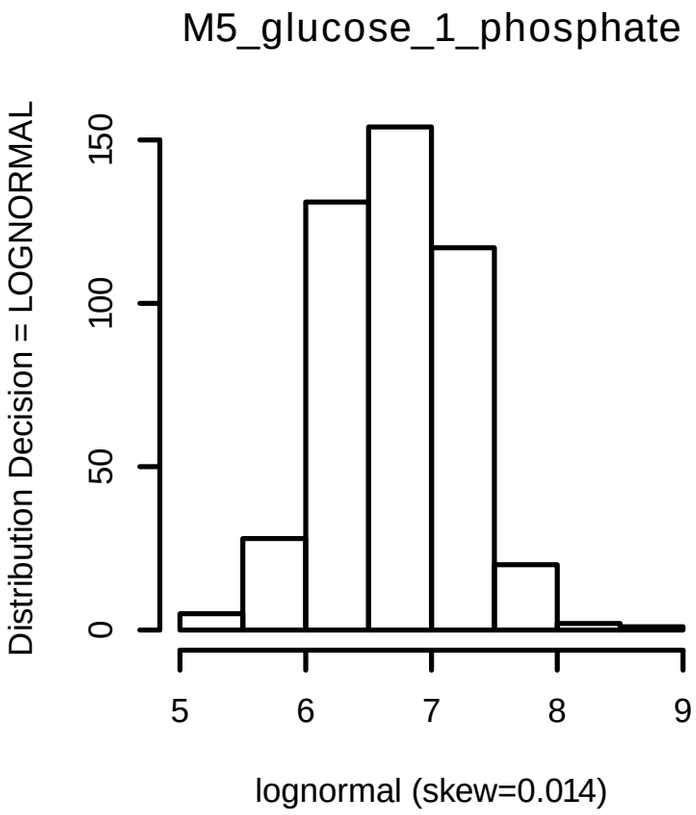

M5_ribitol
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2000
4000
6000
8000
normal (skew=0.82)

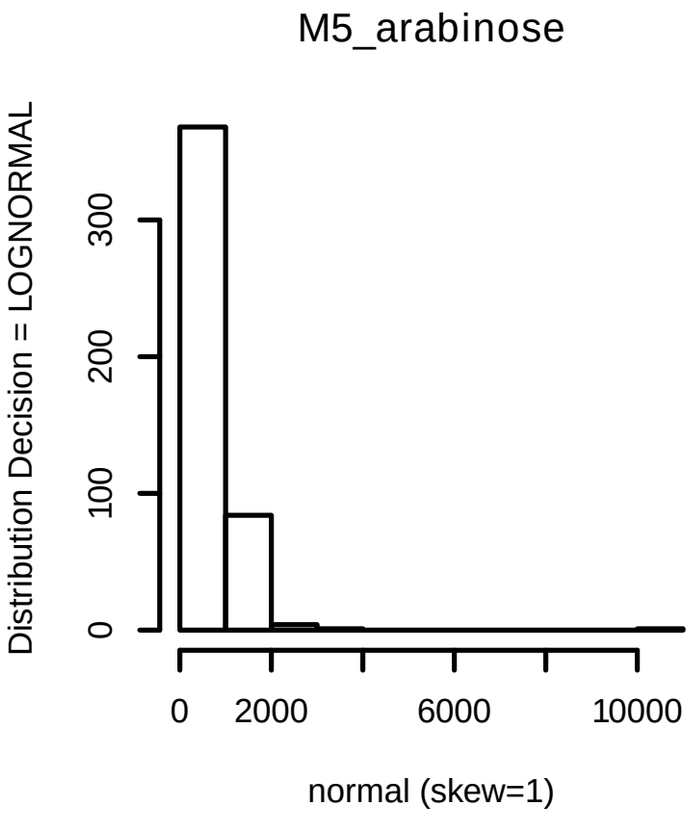

M5_ribitol
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
3
4
5
6
7
8
9
lognormal (skew=0.33)

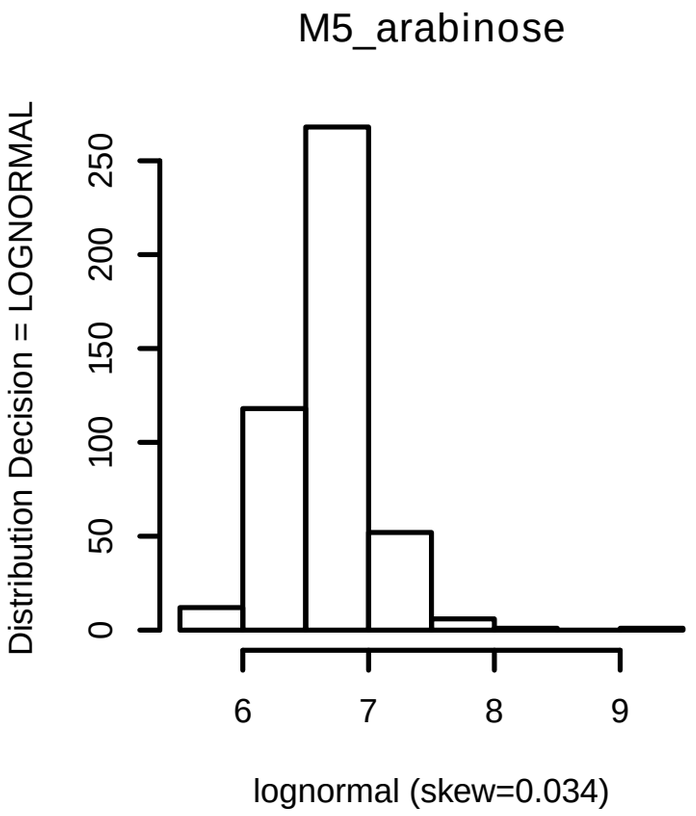

M5_galactonic_acid
Distribution Decision = NORMAL
0
50
100
150
200
250
0
1000
3000
5000
normal (skew=0.019)

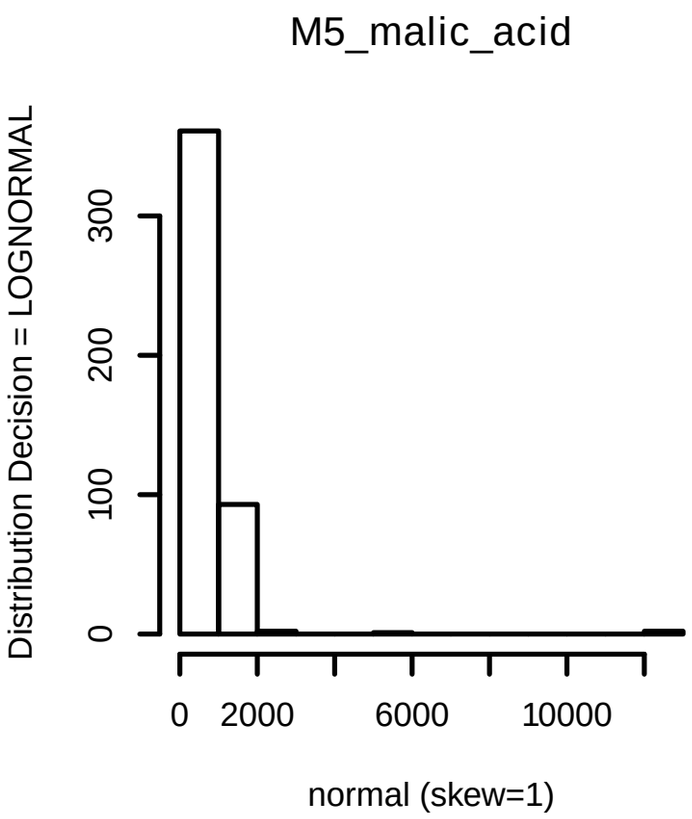

M5_galactonic_acid
Distribution Decision = NORMAL
0
50
100
150
200
4
5
6
7
8
9
lognormal (skew=0.59)

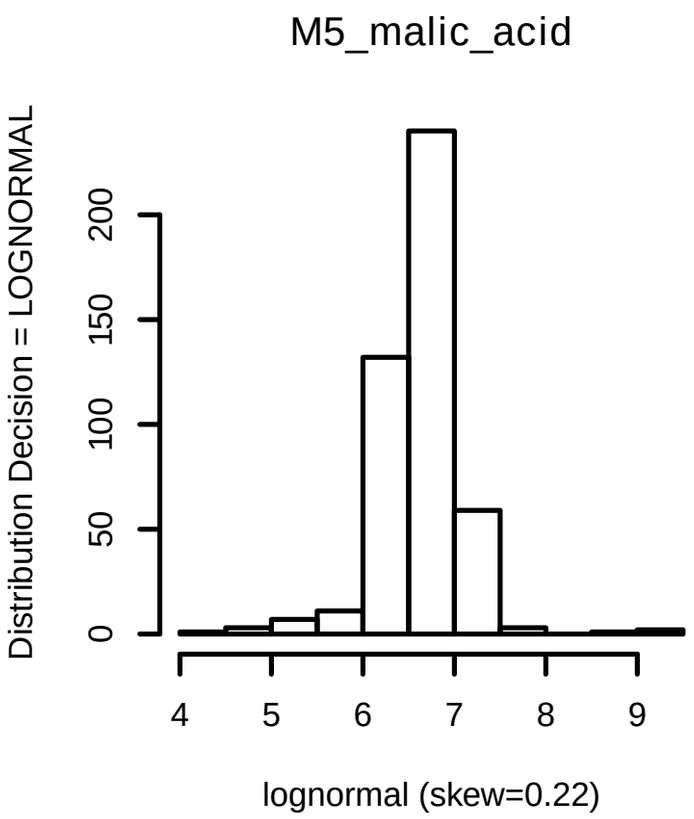

M5_glucose_1_phosphate
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
3000
5000
normal (skew=0.44)

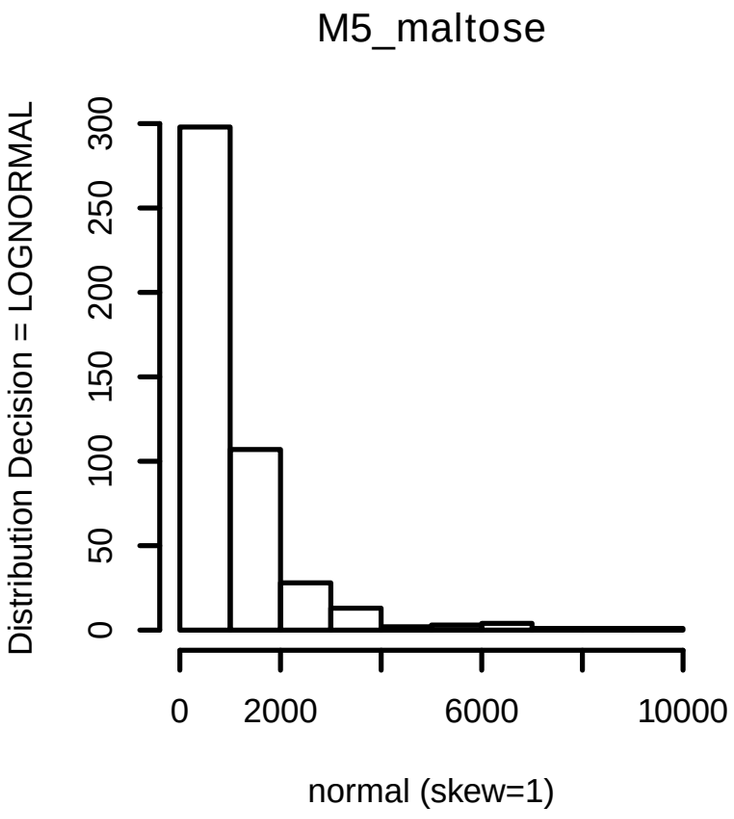

M5_glucose_1_phosphate
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
lognormal (skew=0.014)

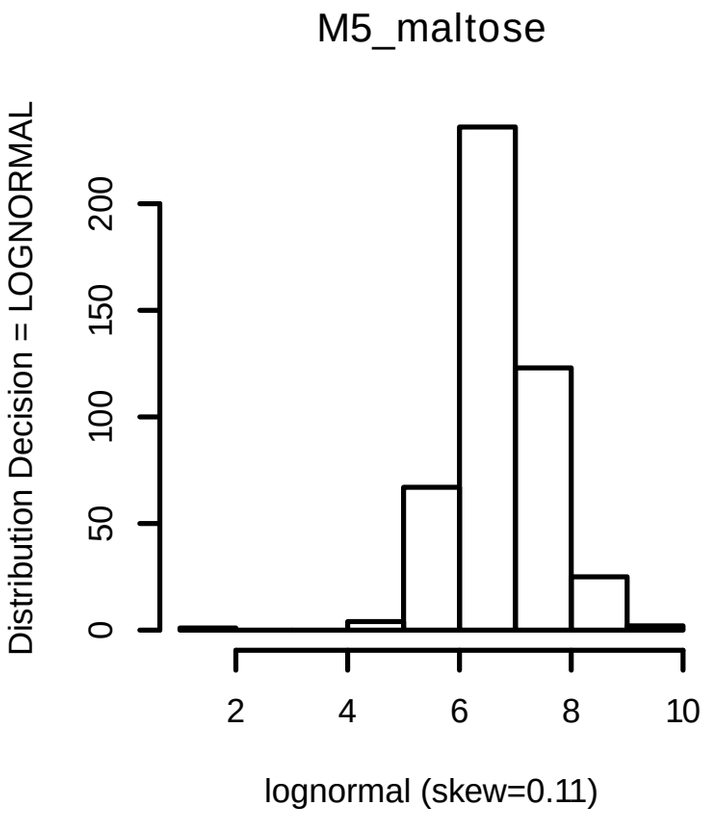

M5_arabinose
Distribution Decision = LOGNORMAL
0
100
200
300
0
2000
6000
10000
normal (skew=1)

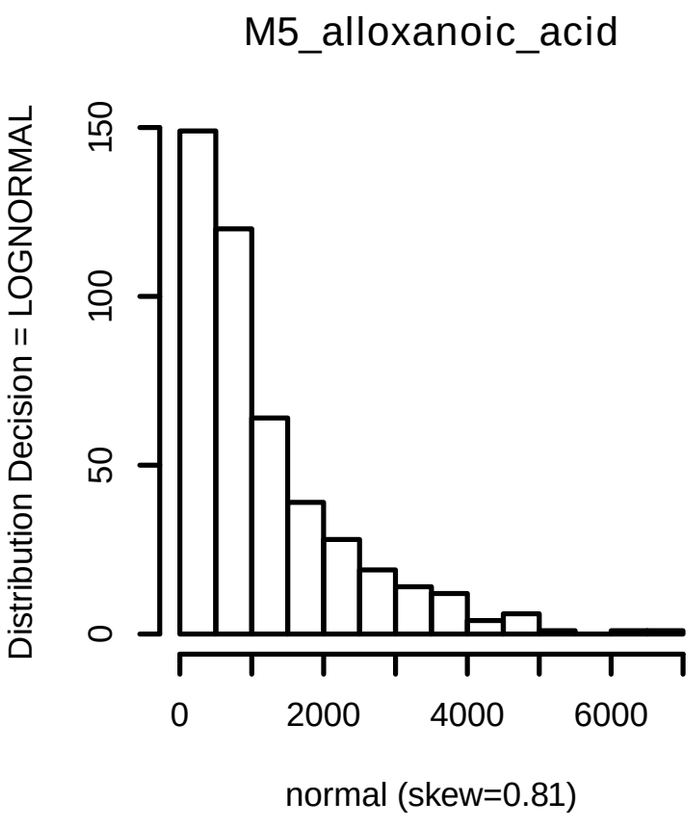

M5_arabinose
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
6
7
8
9
lognormal (skew=0.034)

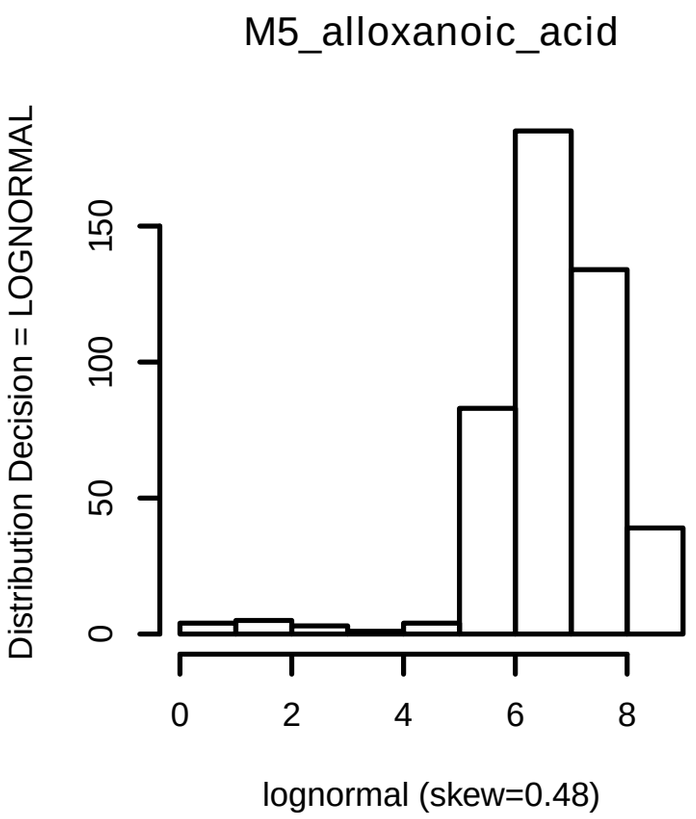

M5_malic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
0
2000
6000
10000
normal (skew=1)

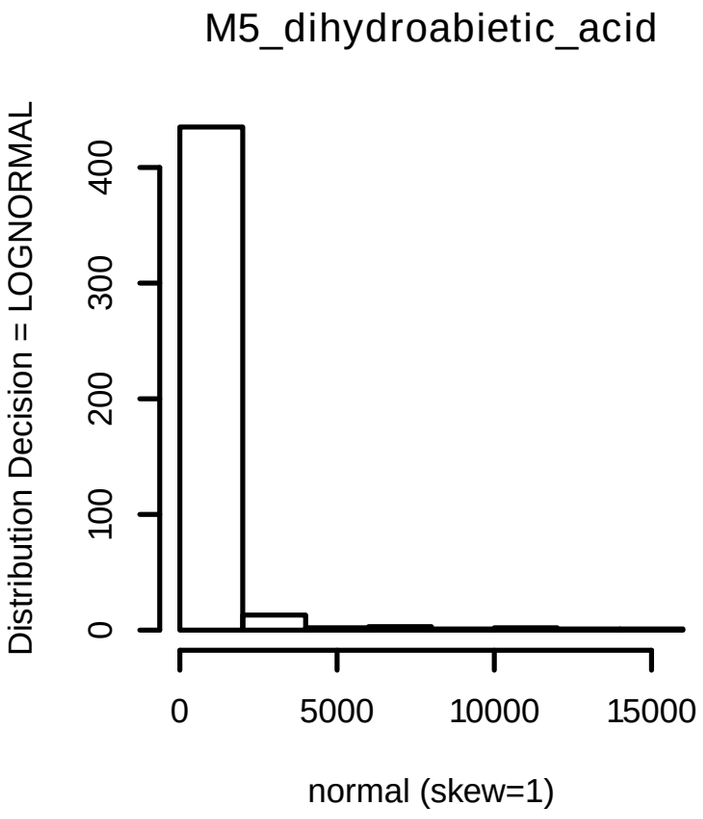

M5_malic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
4
5
6
7
8
9
lognormal (skew=0.22)

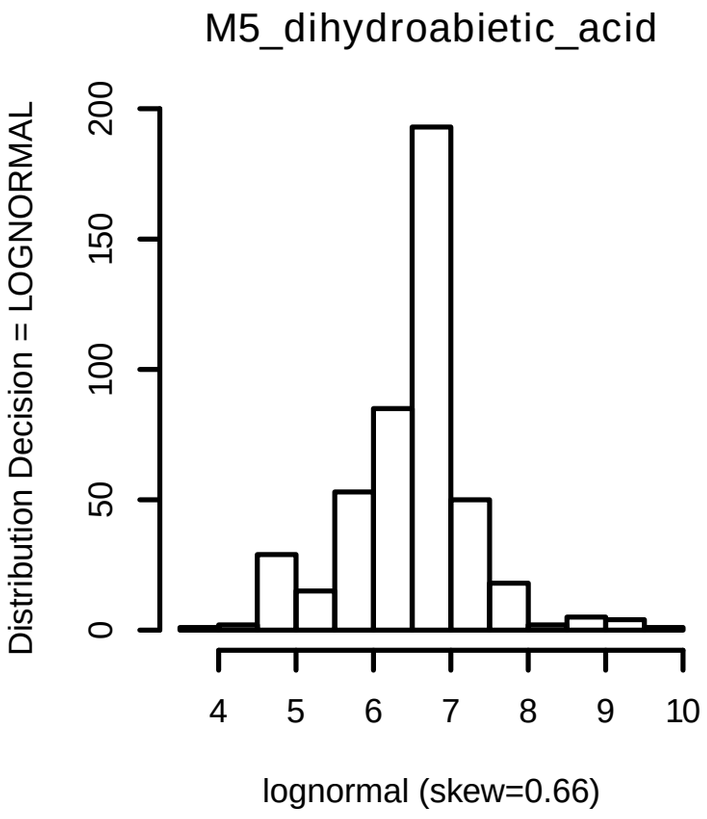

M5_maltose
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
2000
6000
10000
normal (skew=1)

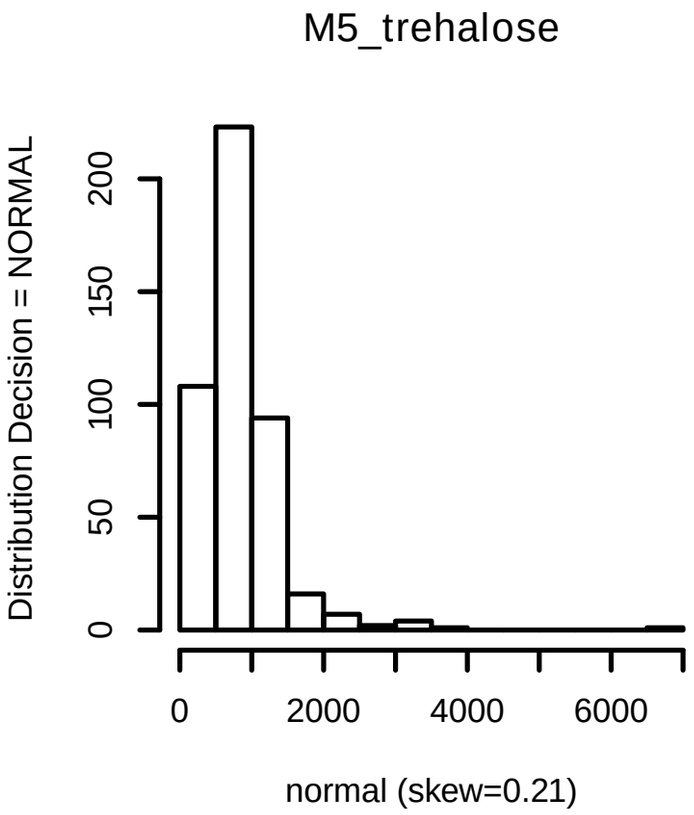

M5_maltose
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
10
lognormal (skew=0.11)

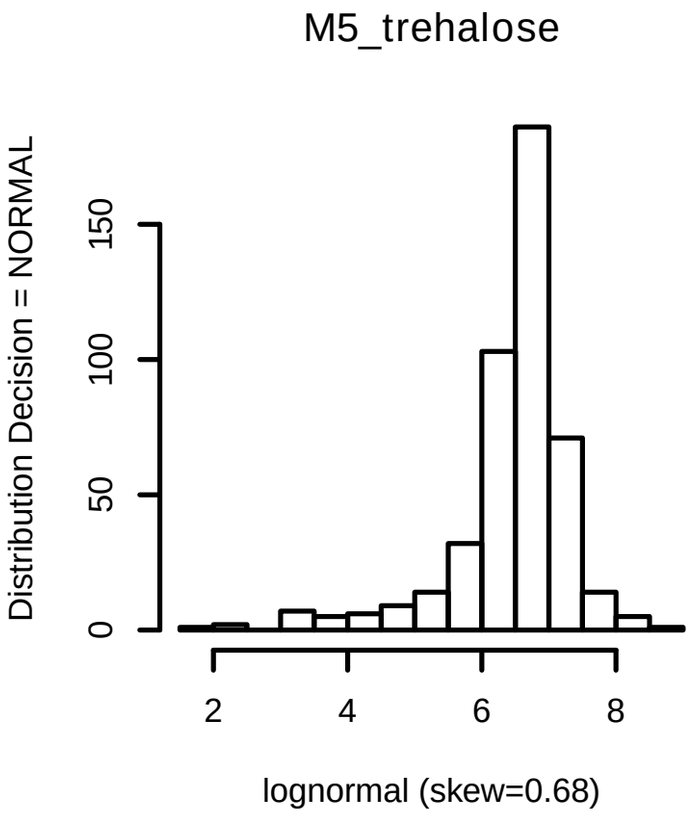

M5_alloxanoic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
2000
4000
6000
normal (skew=0.81)

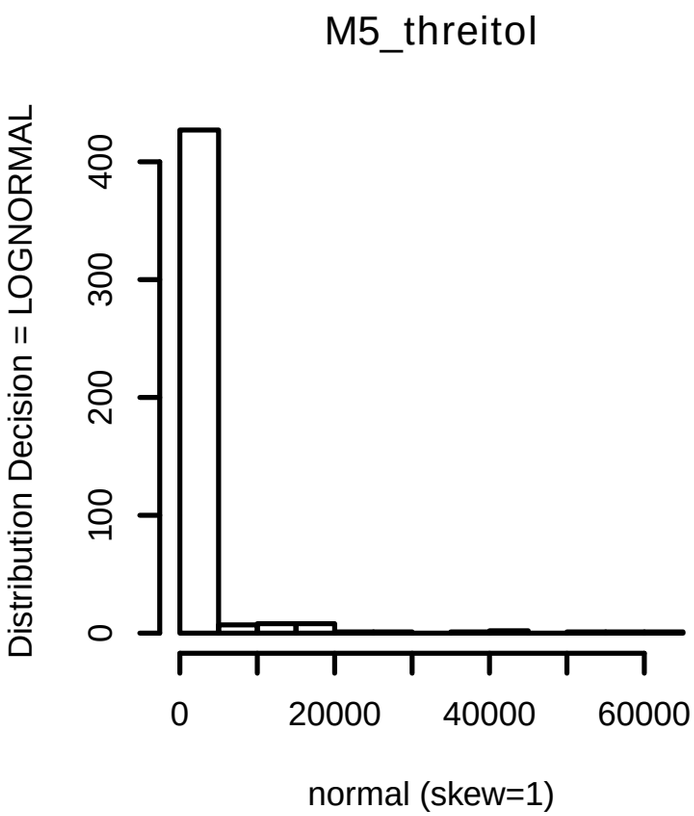

M5_alloxanoic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=0.48)

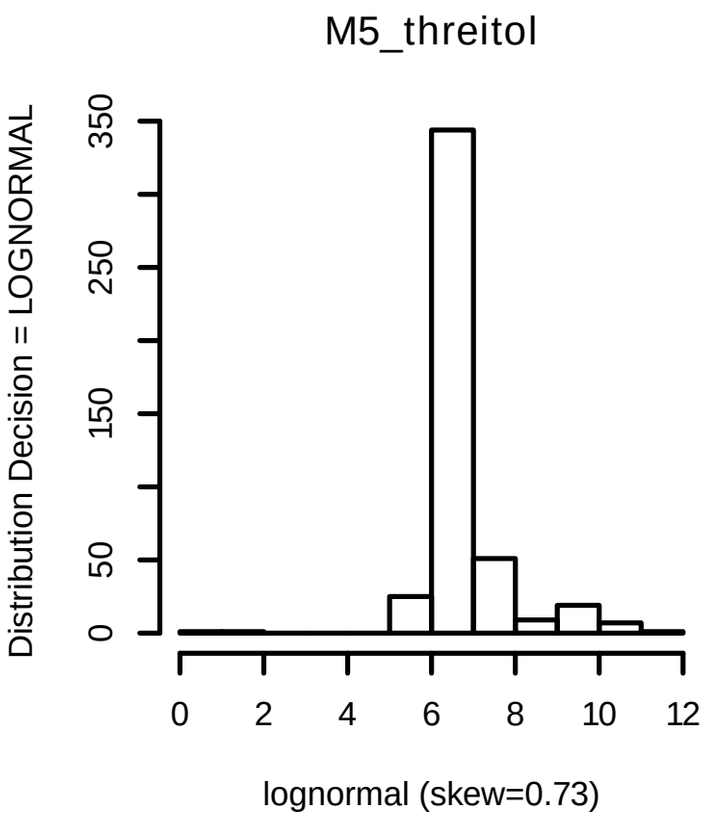

M5_dihydroabietic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
15000
normal (skew=1)

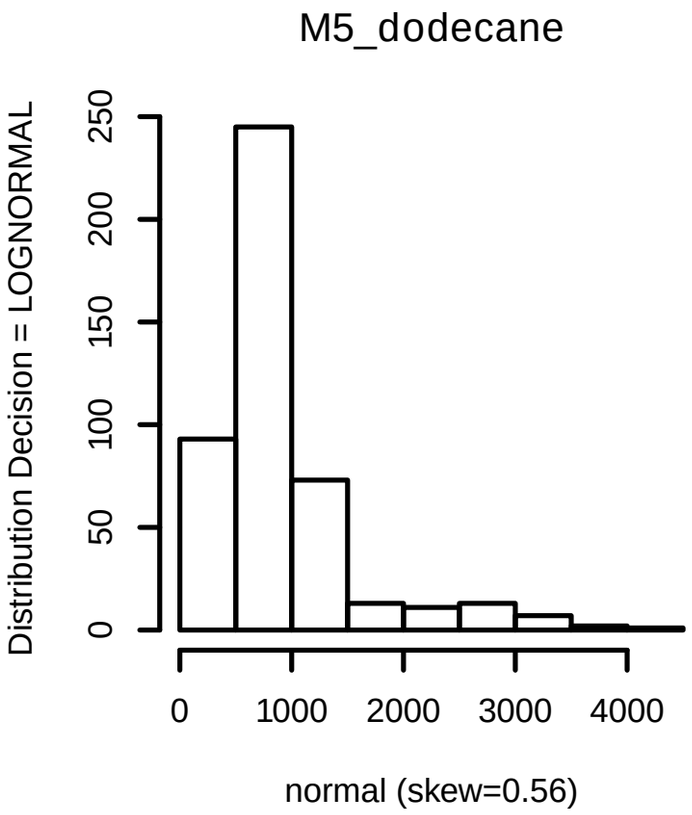

M5_dihydroabietic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
4
5
6
7
8
9
10
lognormal (skew=0.66)

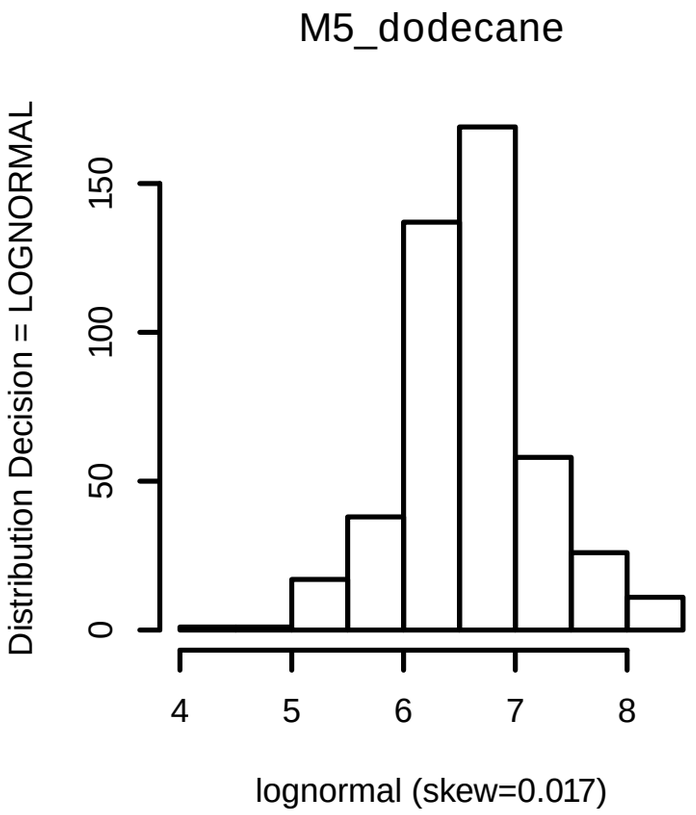

M5_trehalose
Distribution Decision = NORMAL
0
50
100
150
200
0
2000
4000
6000
normal (skew=0.21)

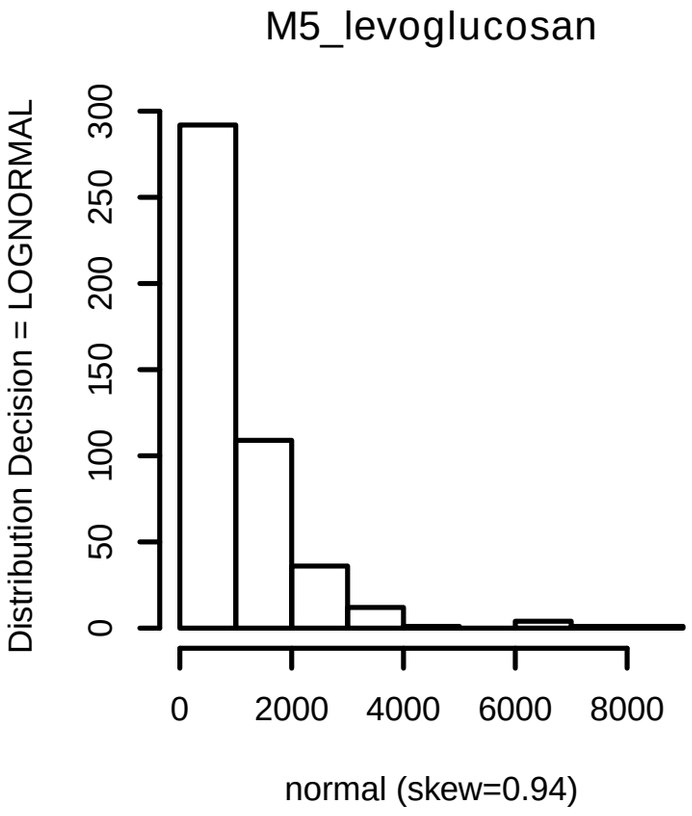

M5_trehalose
Distribution Decision = NORMAL
0
50
100
150
2
4
6
8
lognormal (skew=0.68)

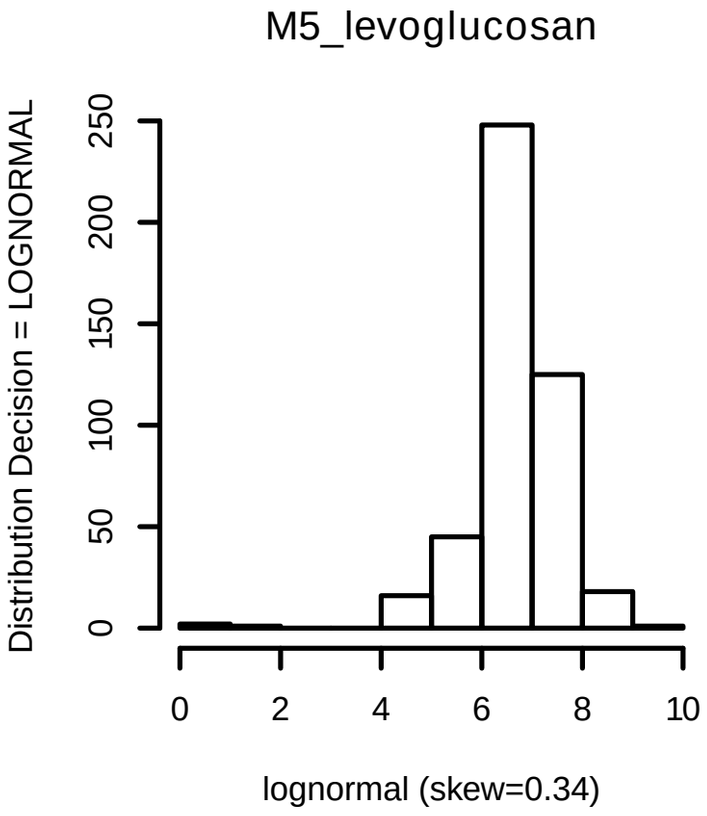

M5_threitol
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
20000
40000
60000
normal (skew=1)

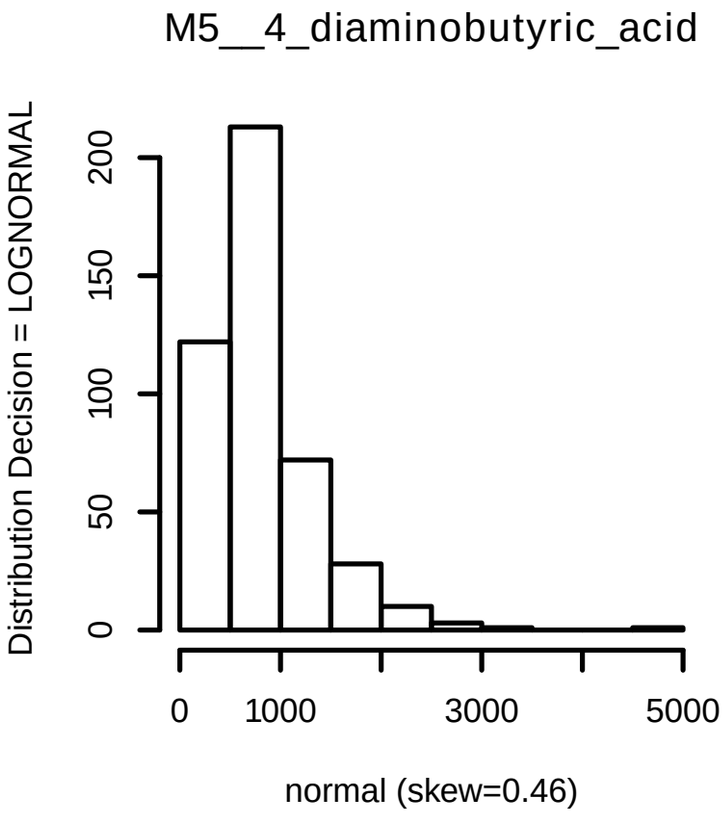

M5_threitol
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
2
4
6
8
10
12
lognormal (skew=0.73)

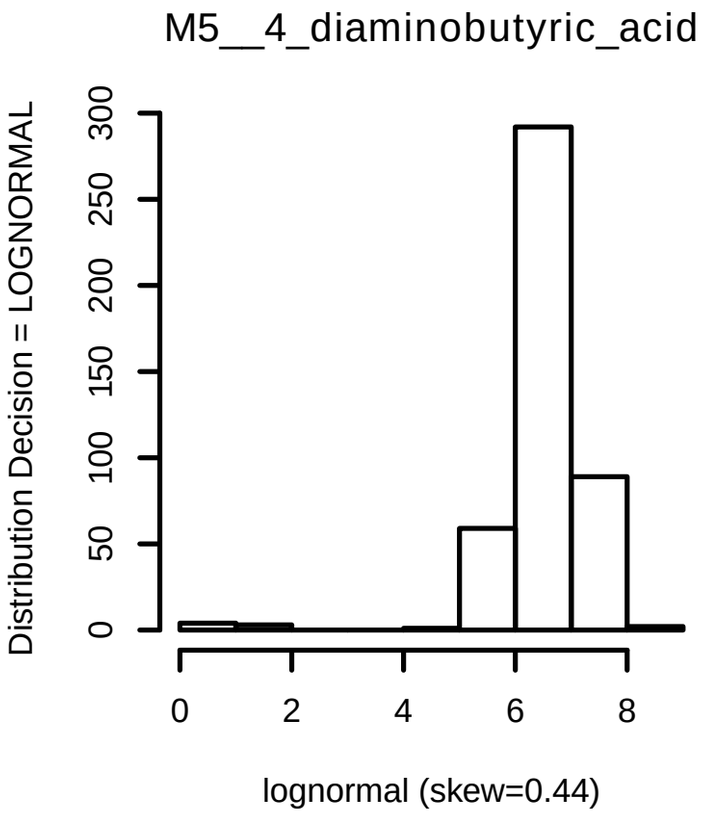

M5_dodecane
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
2000
3000
4000
normal (skew=0.56)

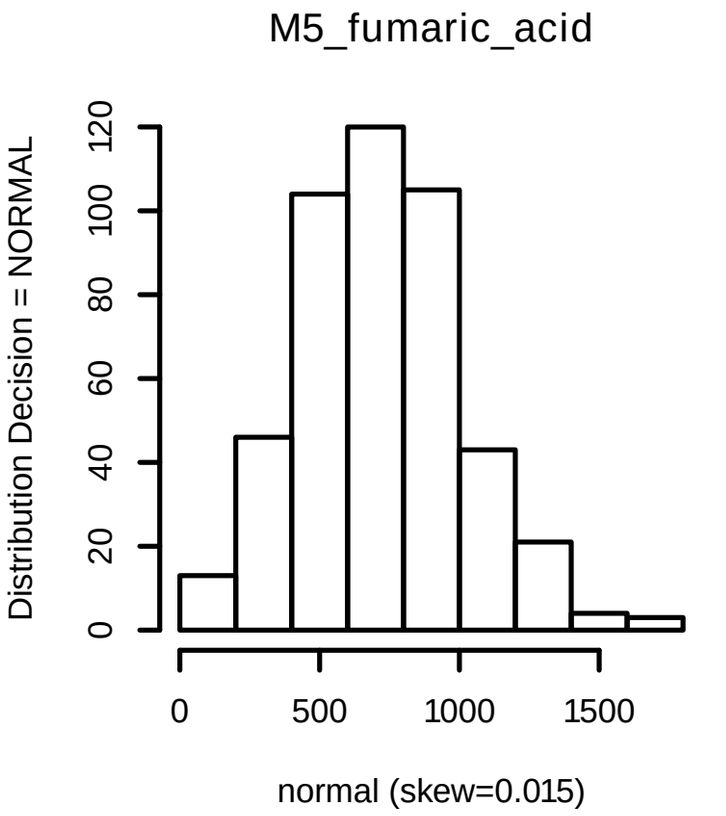

M5_dodecane
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.017)

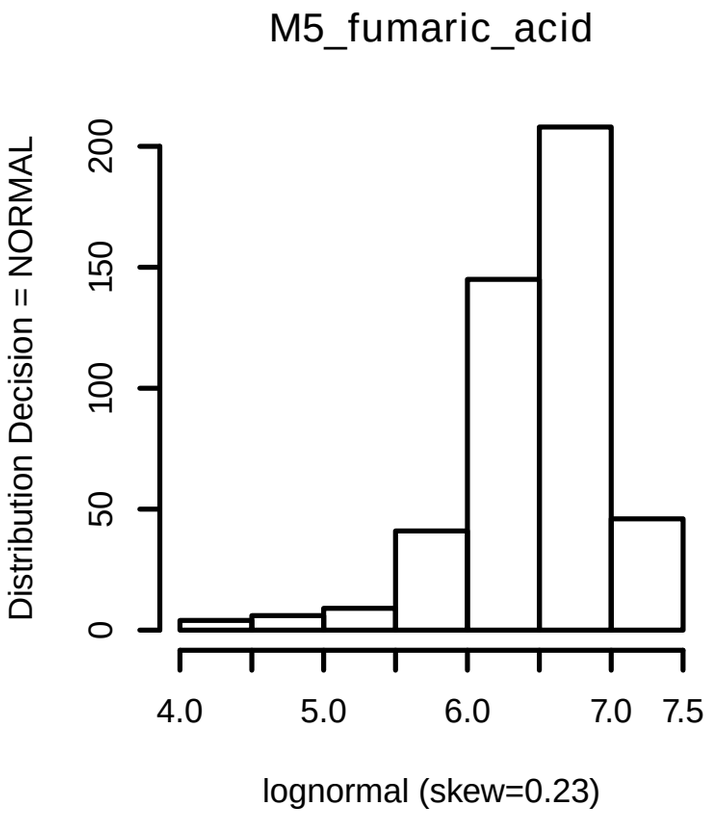

M5_levoglucosan
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
2000
4000
6000
8000
normal (skew=0.94)

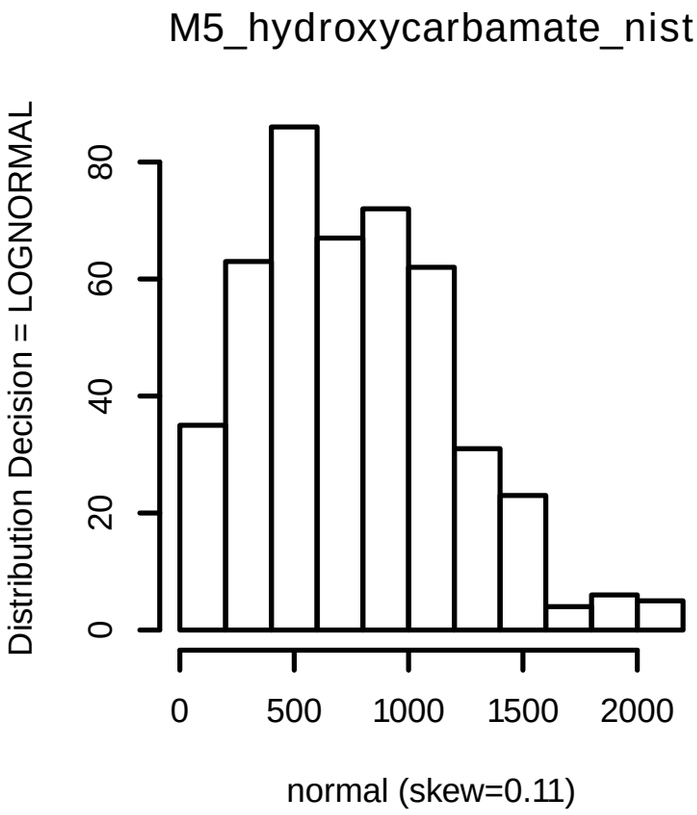

M5_levoglucosan
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
10
lognormal (skew=0.34)

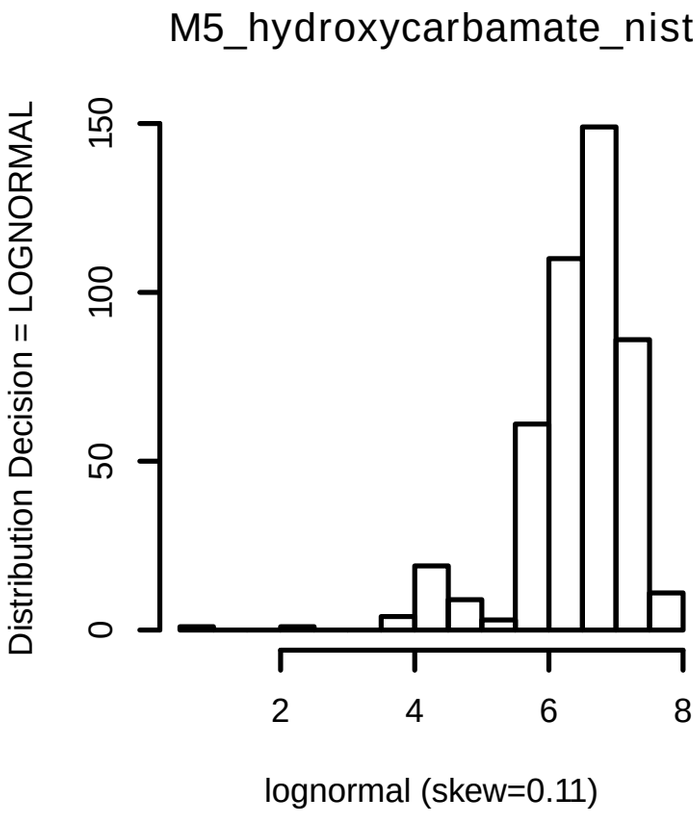

M5__4_diaminobutyric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
3000
5000
normal (skew=0.46)

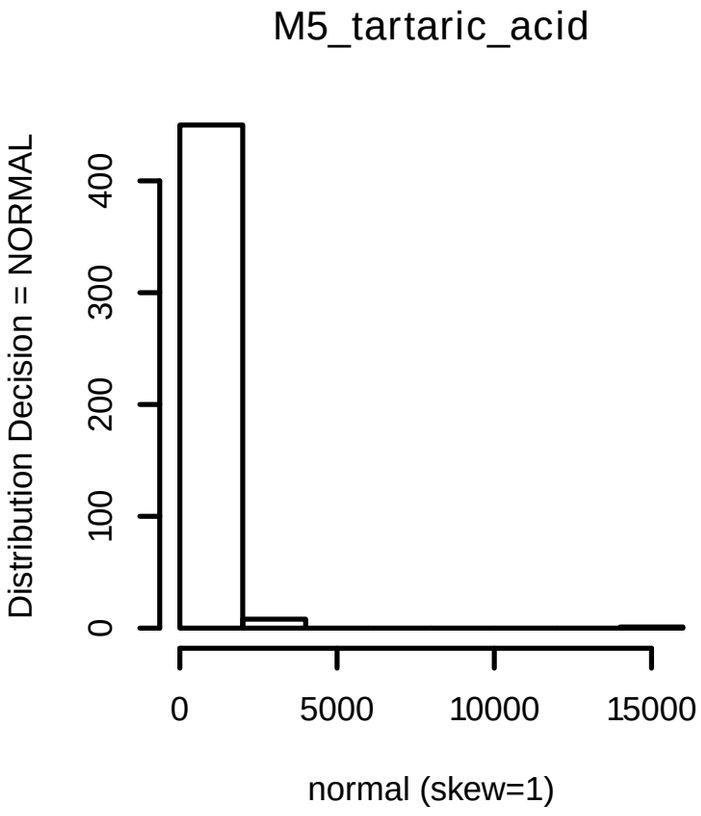

M5__4_diaminobutyric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
2
4
6
8
lognormal (skew=0.44)

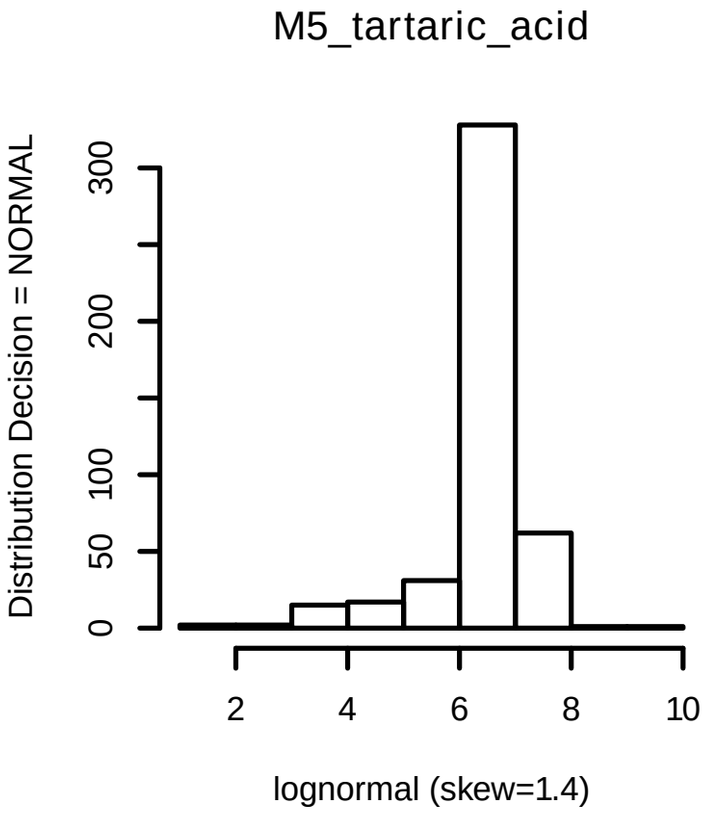

M5_fumaric_acid
Distribution Decision = NORMAL
0
20
40
60
80
100
120
0
500
1000
1500
normal (skew=0.015)

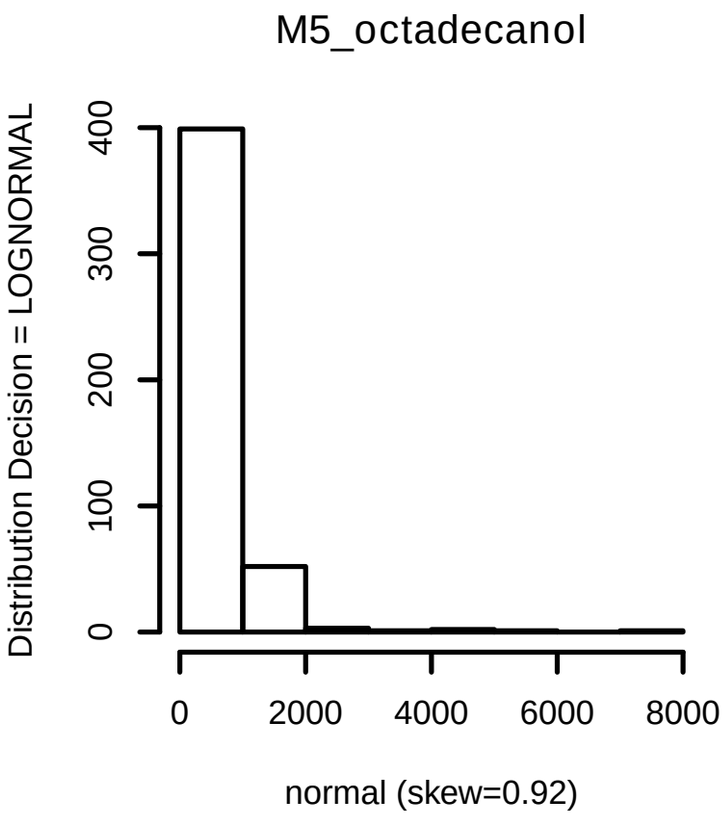

M5_fumaric_acid
Distribution Decision = NORMAL
0
50
100
150
200
4.0
5.0
6.0
7.0
7.5
lognormal (skew=0.23)

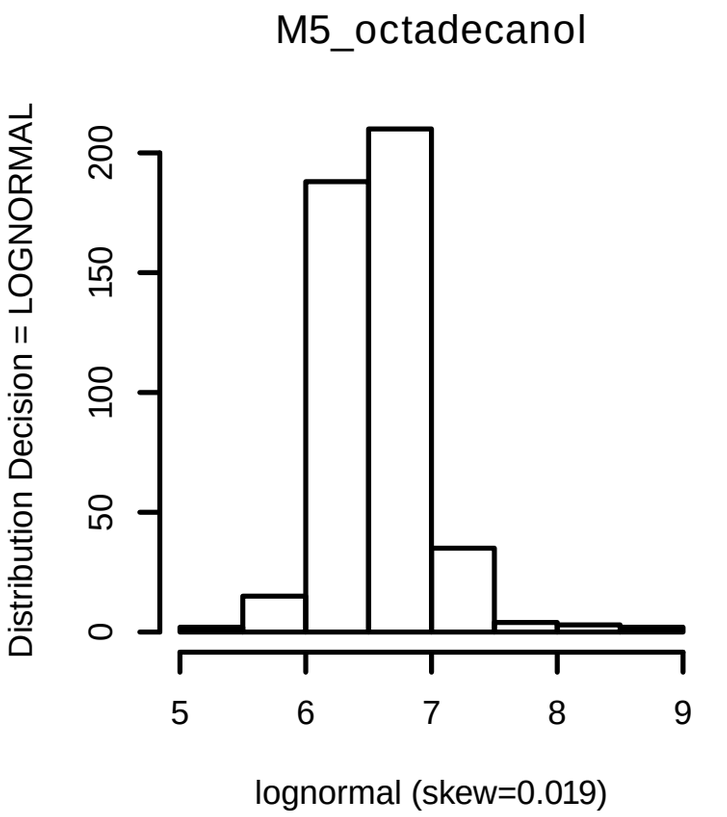

M5_hydroxycarbamate_nist
Distribution Decision = LOGNORMAL
0
20
40
60
80
0
500
1000
1500
2000
normal (skew=0.11)

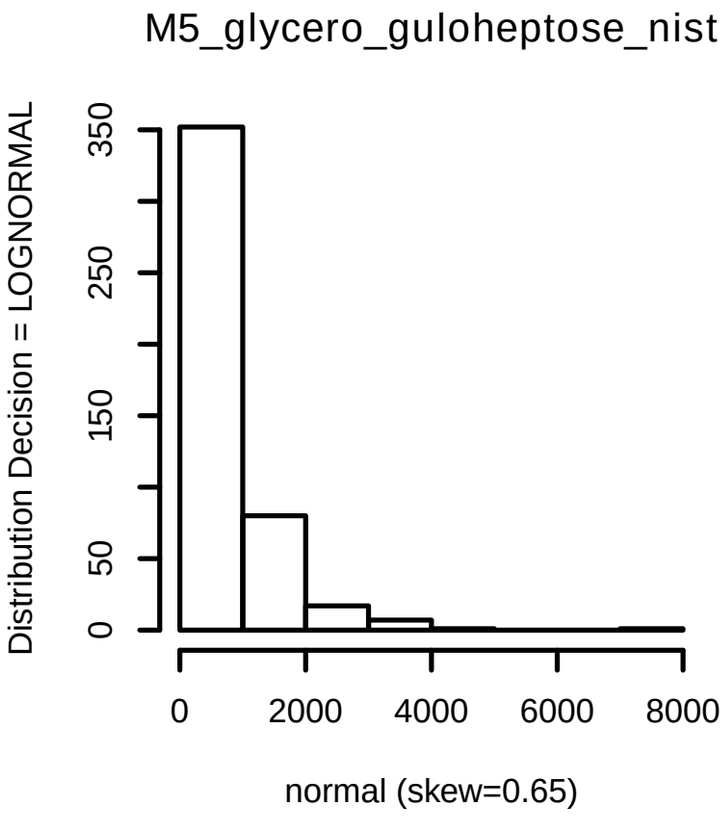

M5_hydroxycarbamate_nist
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
lognormal (skew=0.11)

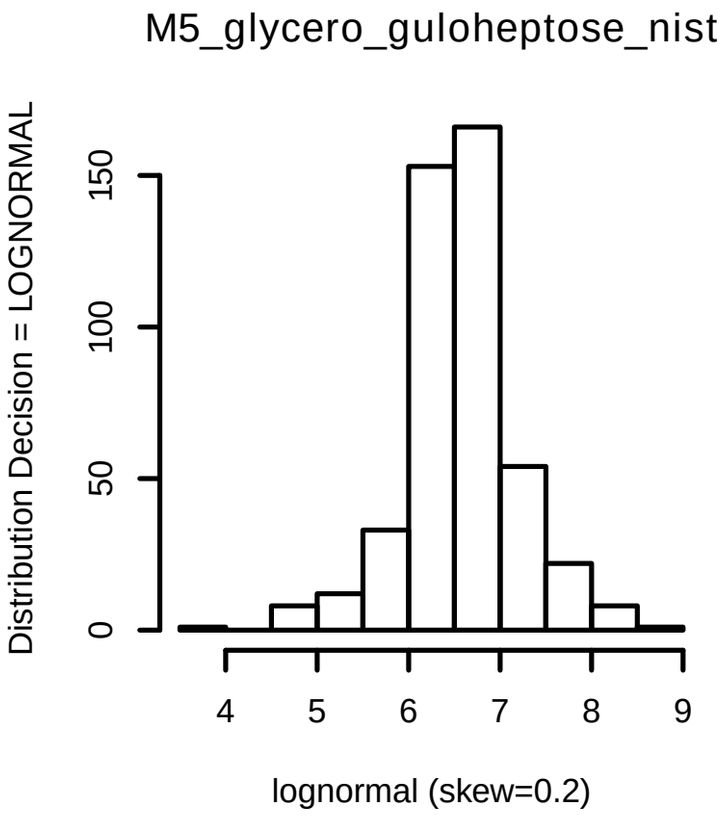

M5_tartaric_acid
Distribution Decision = NORMAL
0
100
200
300
400
0
5000
10000
15000
normal (skew=1)

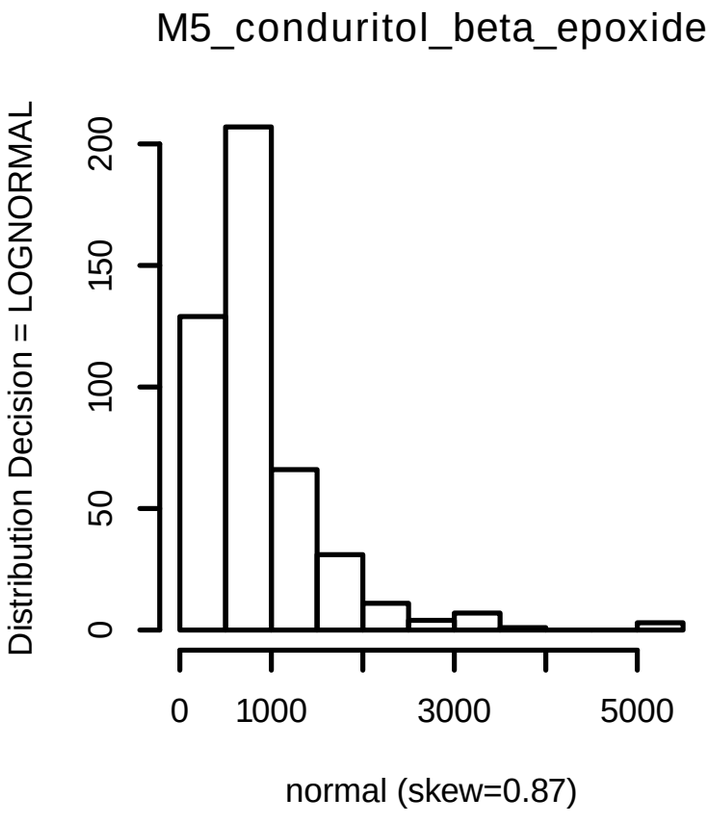

M5_tartaric_acid
Distribution Decision = NORMAL
0
50
100
200
300
2
4
6
8
10
lognormal (skew=1.4)

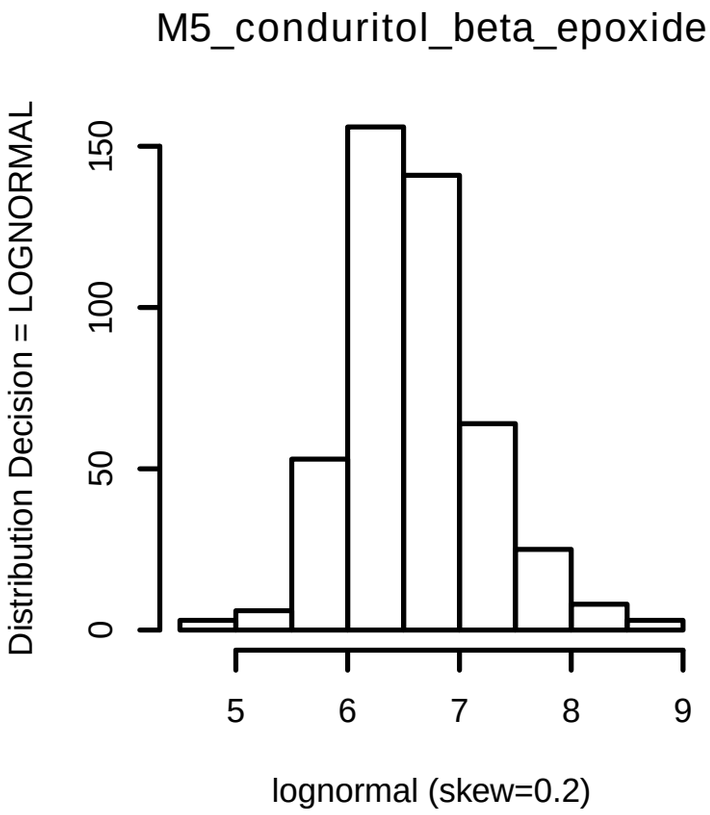

M5_octadecanol
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
2000
4000
6000
8000
normal (skew=0.92)

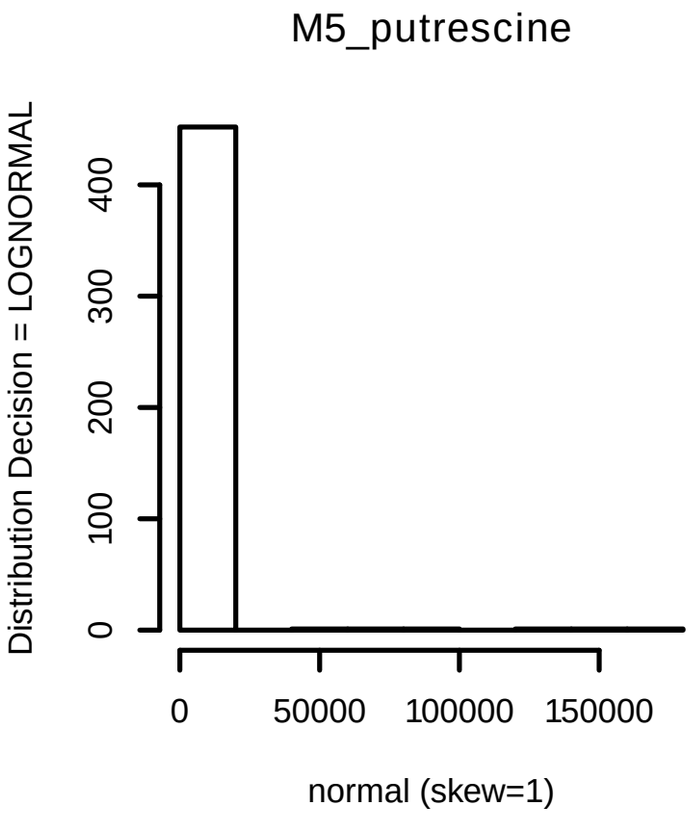

M5_octadecanol
Distribution Decision = LOGNORMAL
0
50
100
150
200
5
6
7
8
9
lognormal (skew=0.019)

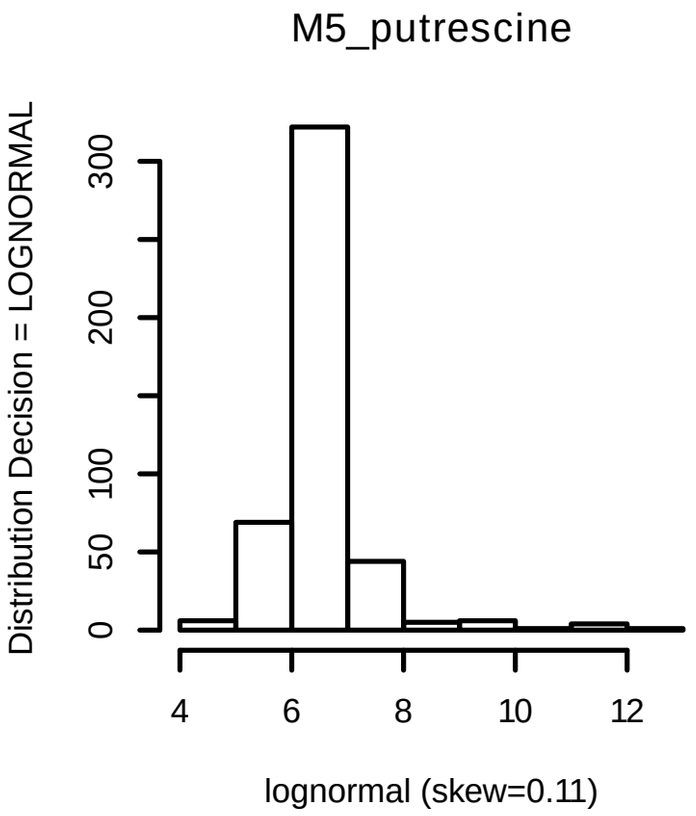

M5_glycero_guloheptose_nist
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
2000
4000
6000
8000
normal (skew=0.65)

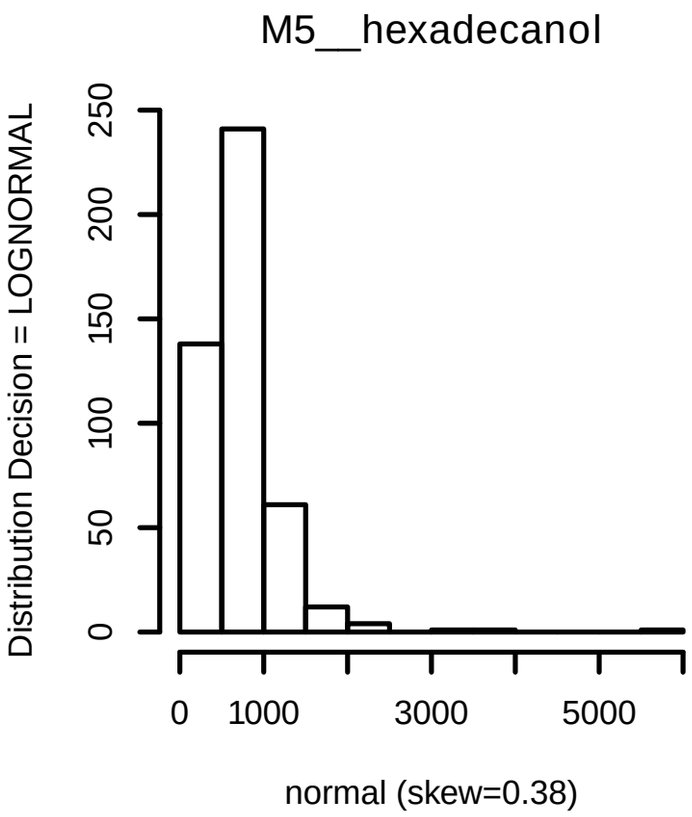

M5_glycero_guloheptose_nist
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
9
lognormal (skew=0.2)

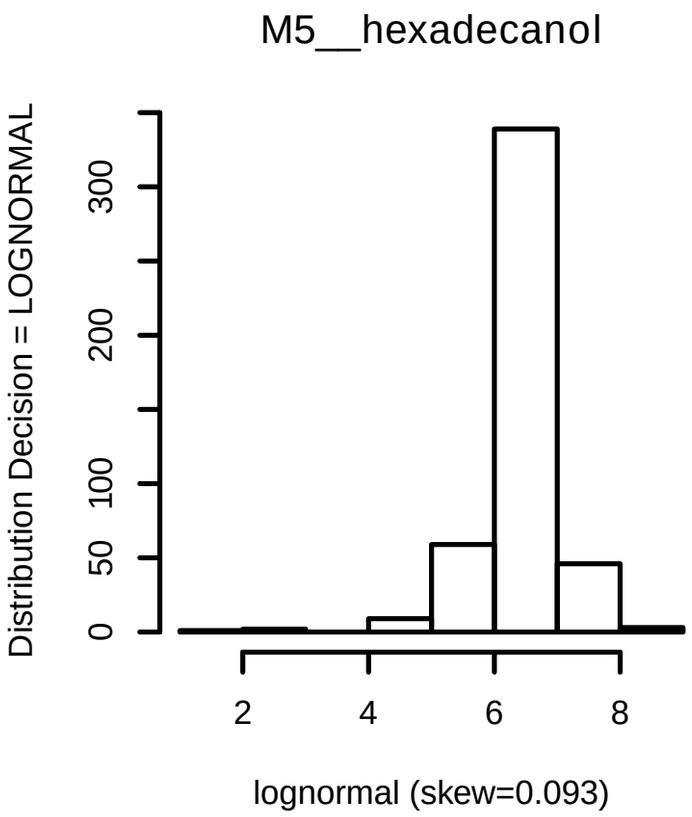

M5_conduritol_beta_epoxide
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
3000
5000
normal (skew=0.87)

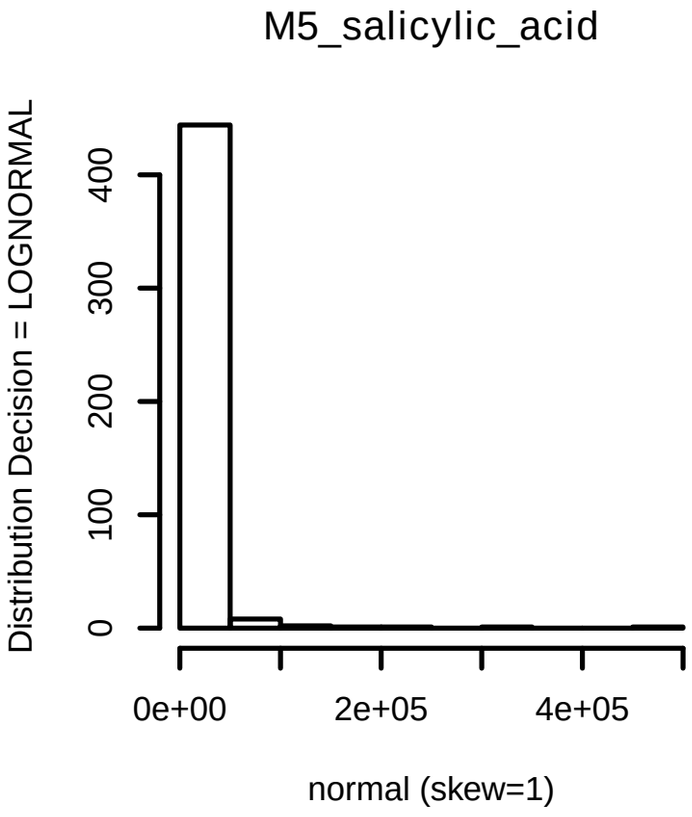

M5_conduritol_beta_epoxide
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
lognormal (skew=0.2)

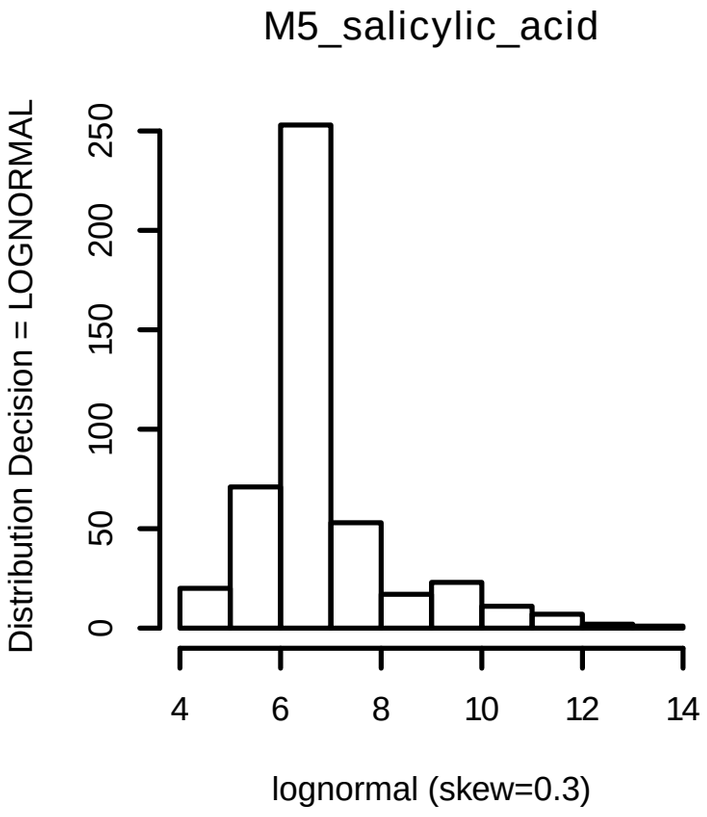

M5_putrescine
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
50000
100000
150000
normal (skew=1)

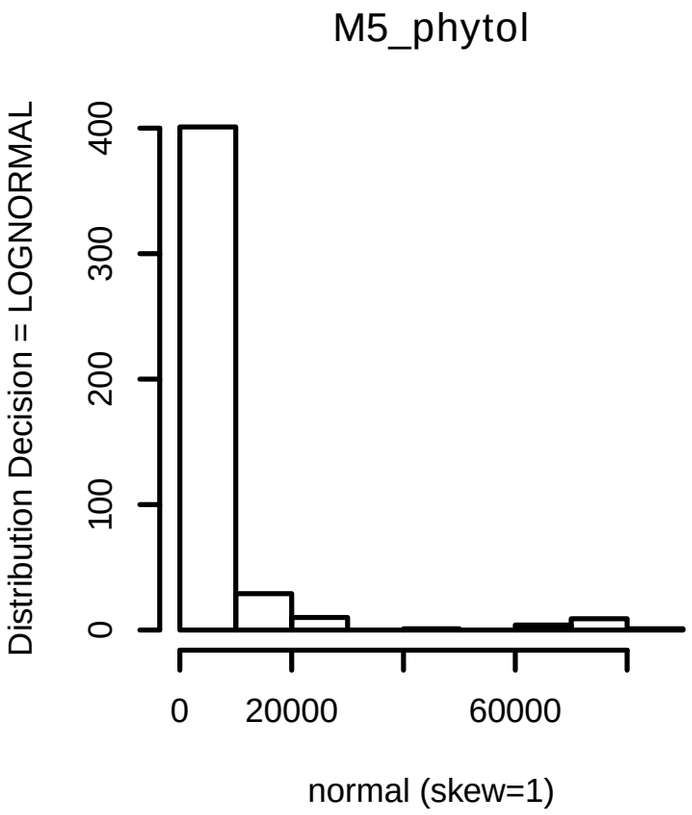

M5_putrescine
Distribution Decision = LOGNORMAL
0
50
100
200
300
4
6
8
10
12
lognormal (skew=0.11)

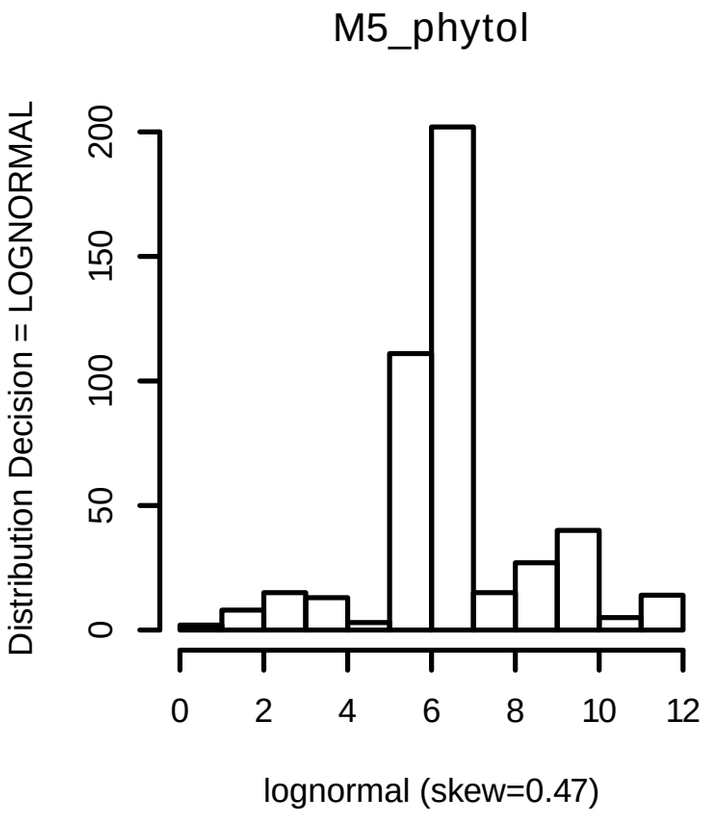

M5__hexadecanol
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
3000
5000
normal (skew=0.38)

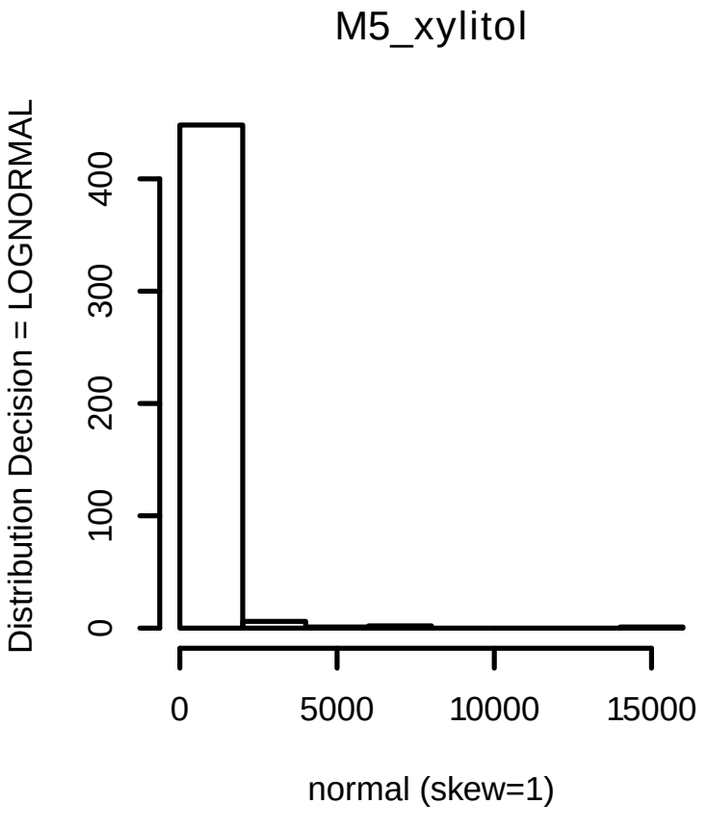

M5__hexadecanol
Distribution Decision = LOGNORMAL
0
50
100
200
300
2
4
6
8
lognormal (skew=0.093)

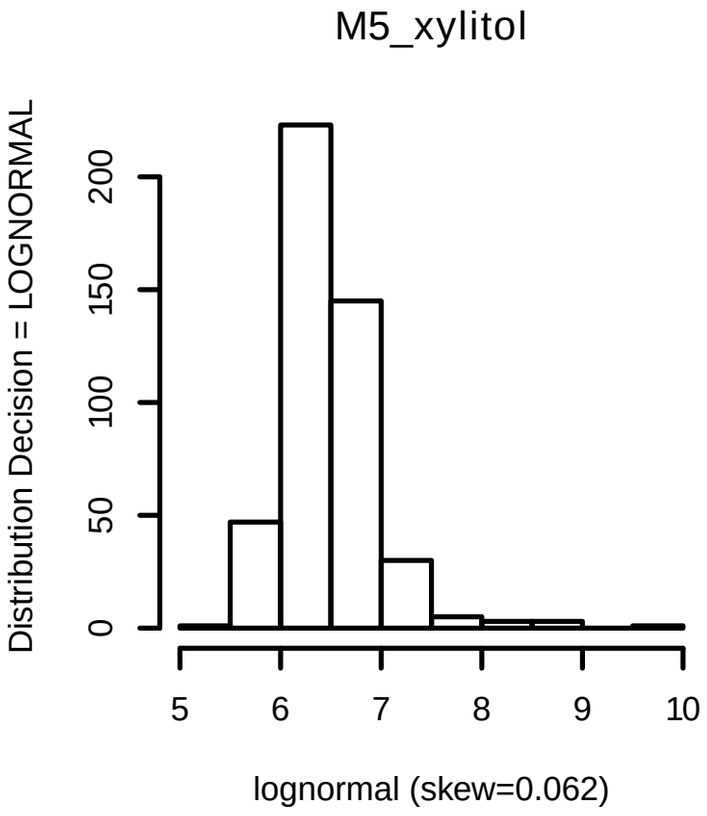

M5_salicylic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
2e+05
4e+05
normal (skew=1)

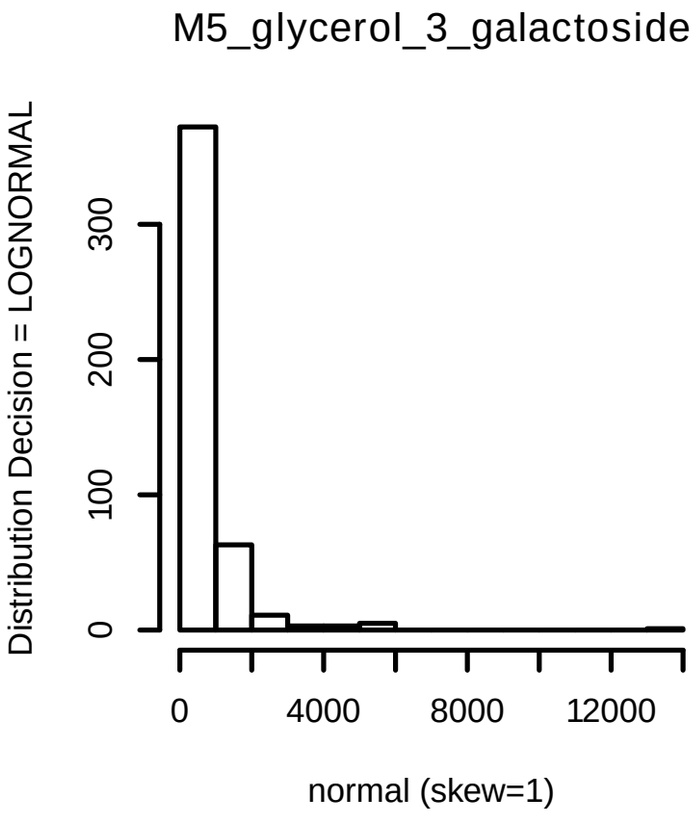

M5_salicylic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
4
6
8
10
12
14
lognormal (skew=0.3)

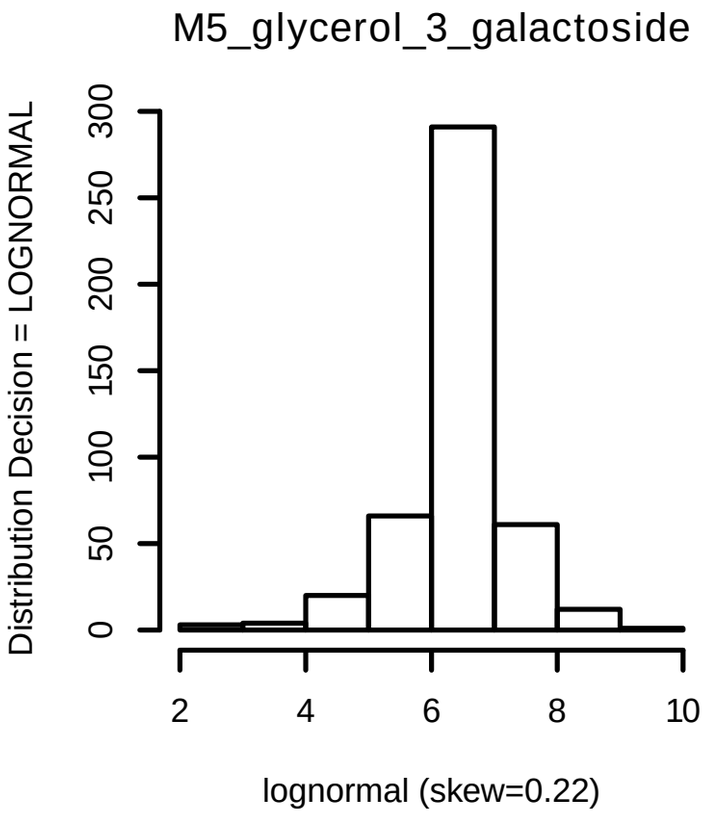

M5_phytol
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
20000
60000
normal (skew=1)

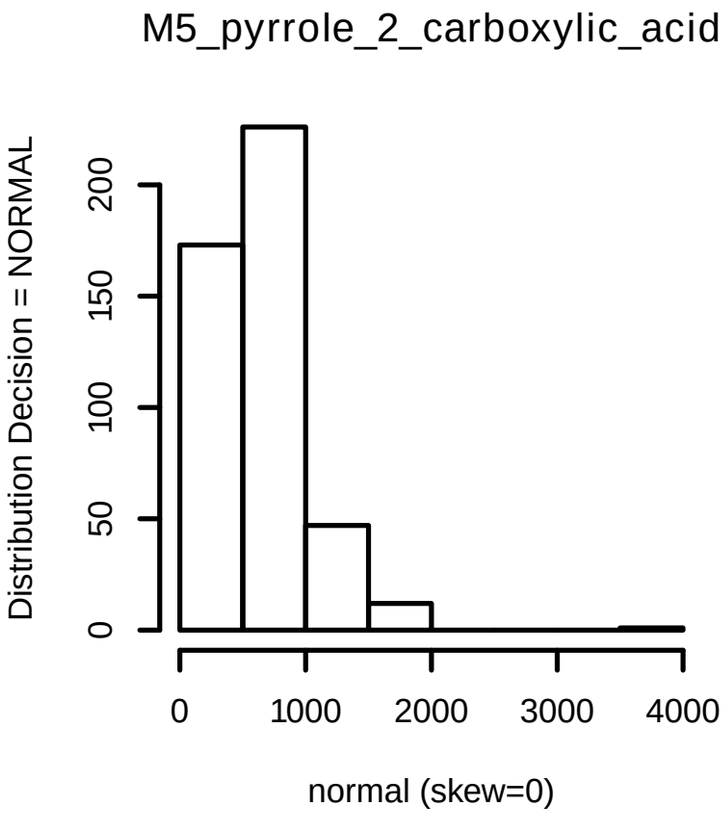

M5_phytol
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
10
12
lognormal (skew=0.47)

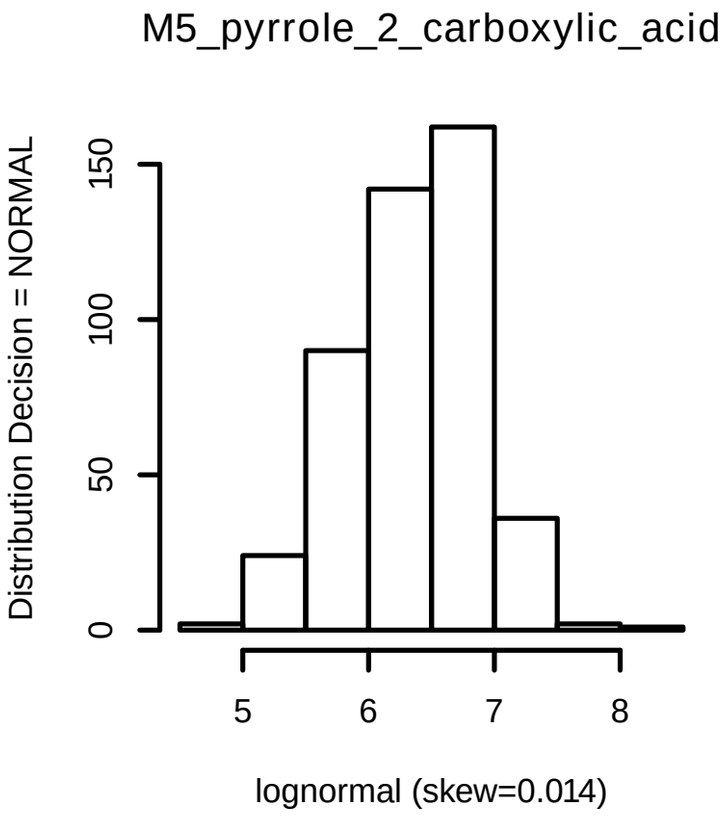

M5_xylitol
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
15000
normal (skew=1)

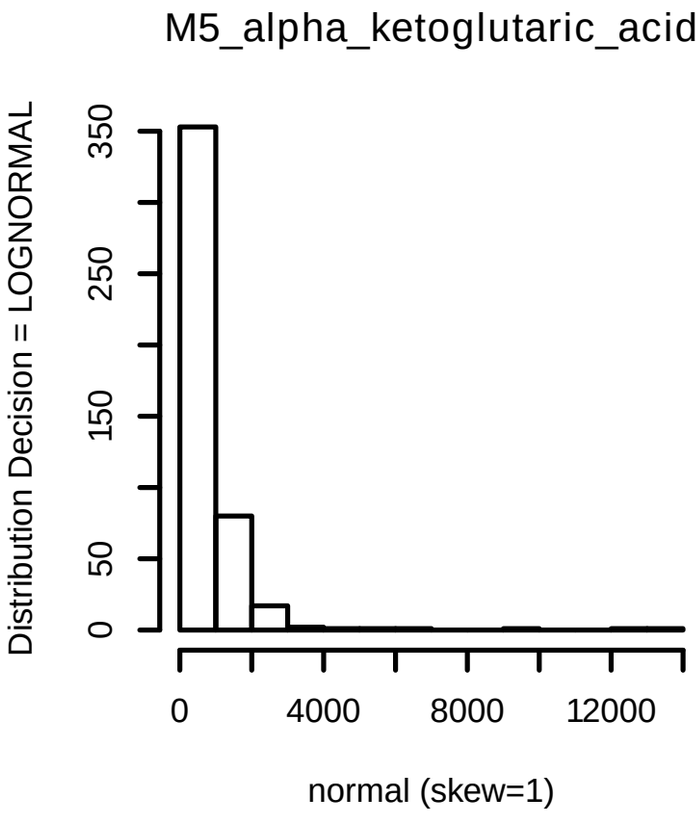

M5_xylitol
Distribution Decision = LOGNORMAL
0
50
100
150
200
5
6
7
8
9
10
lognormal (skew=0.062)

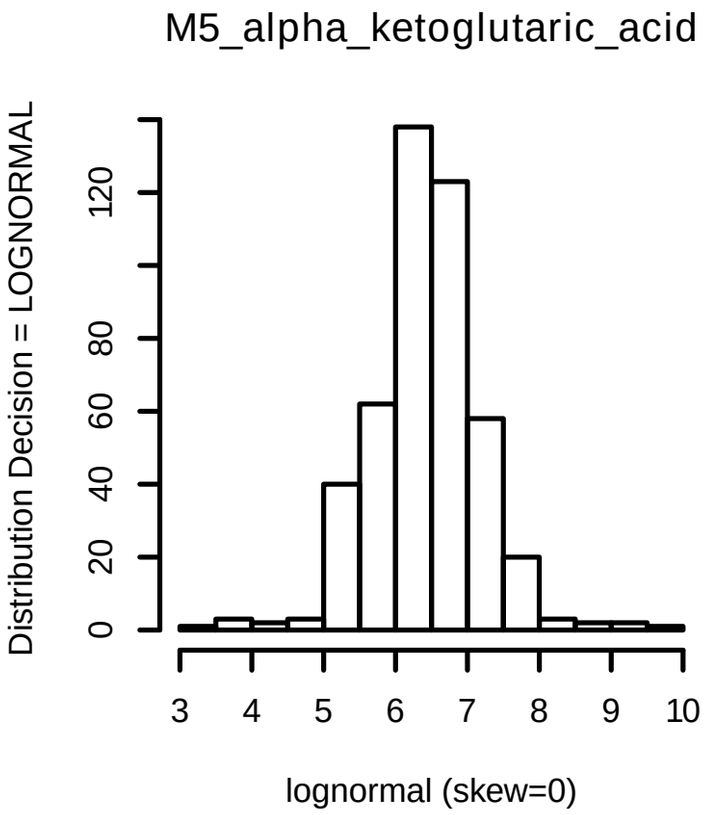

M5_glycerol_3_galactoside
Distribution Decision = LOGNORMAL
0
100
200
300
0
4000
8000
12000
normal (skew=1)

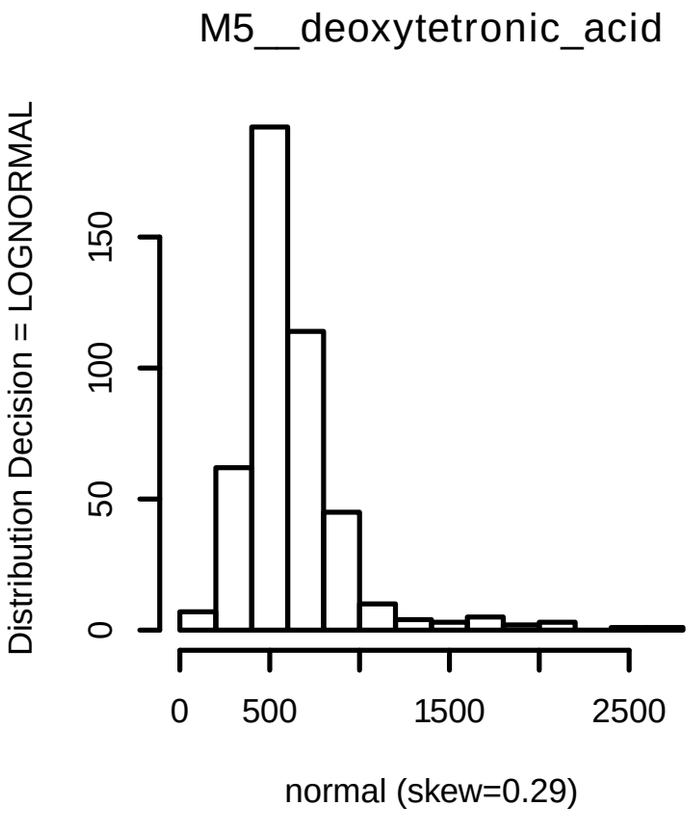

M5_glycerol_3_galactoside
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
2
4
6
8
10
lognormal (skew=0.22)

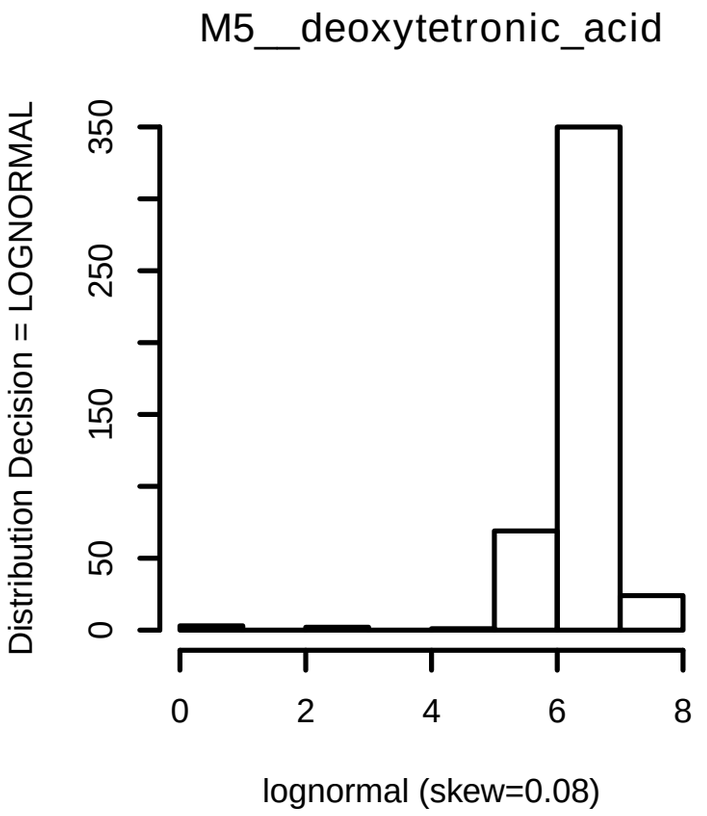

M5_pyrrole_2_carboxylic_acid
Distribution Decision = NORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0)

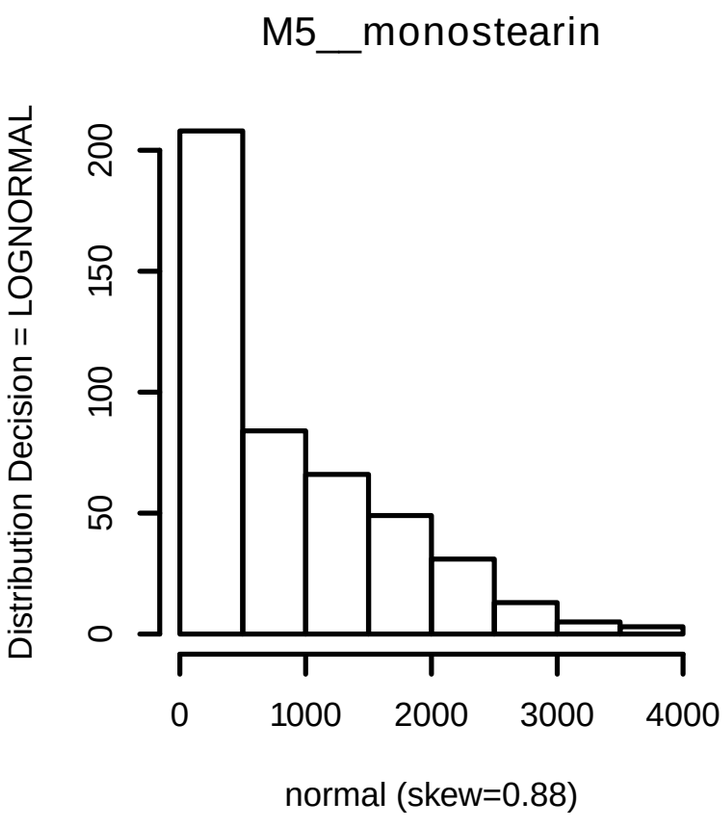

M5_pyrrole_2_carboxylic_acid
Distribution Decision = NORMAL
0
50
100
150
5
6
7
8
lognormal (skew=0.014)

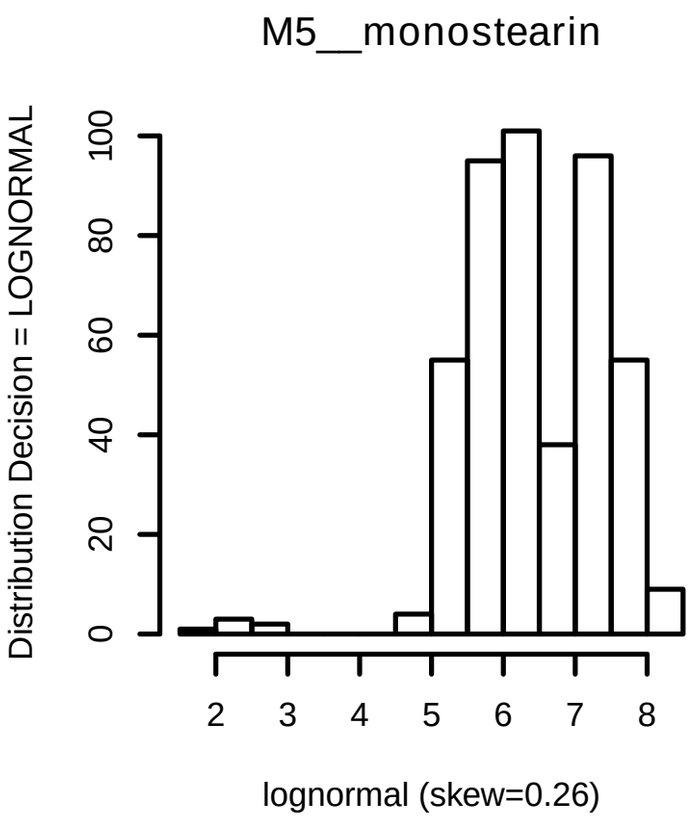

M5_alpha_ketoglutaric_acid
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
4000
8000
12000
normal (skew=1)

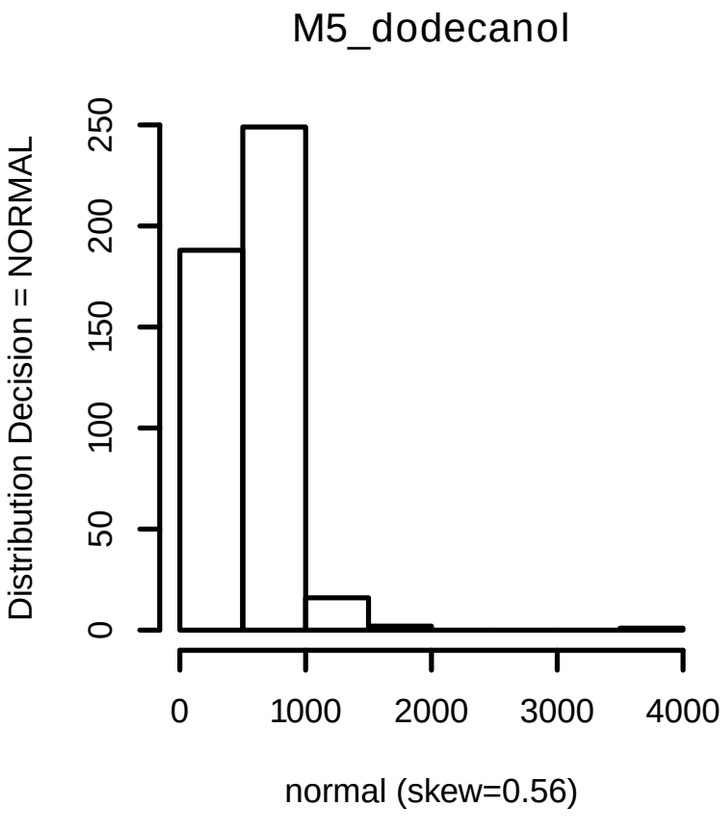

M5_alpha_ketoglutaric_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
3
4
5
6
7
8
9
10
lognormal (skew=0)

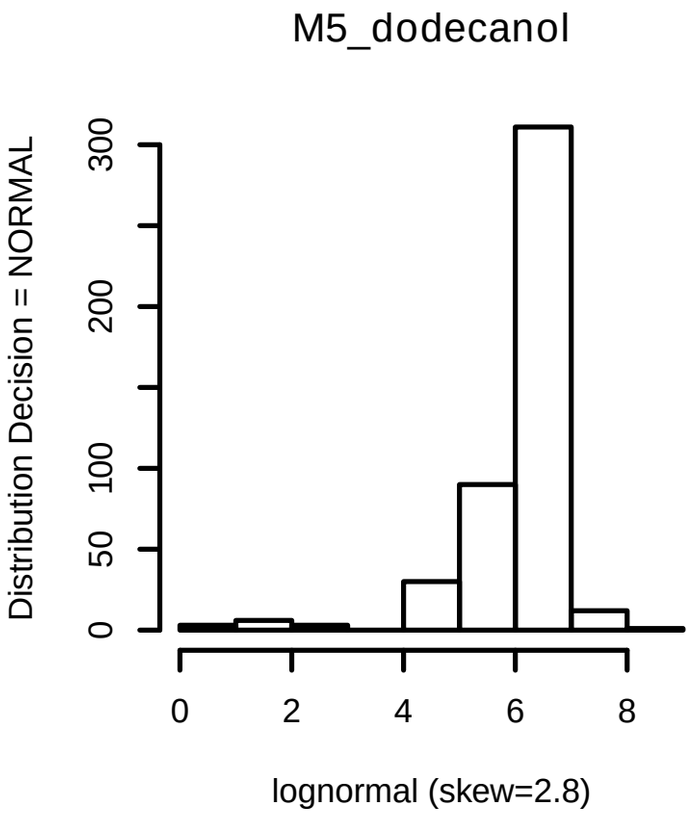

M5__deoxytetronic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
500
1500
2500
normal (skew=0.29)

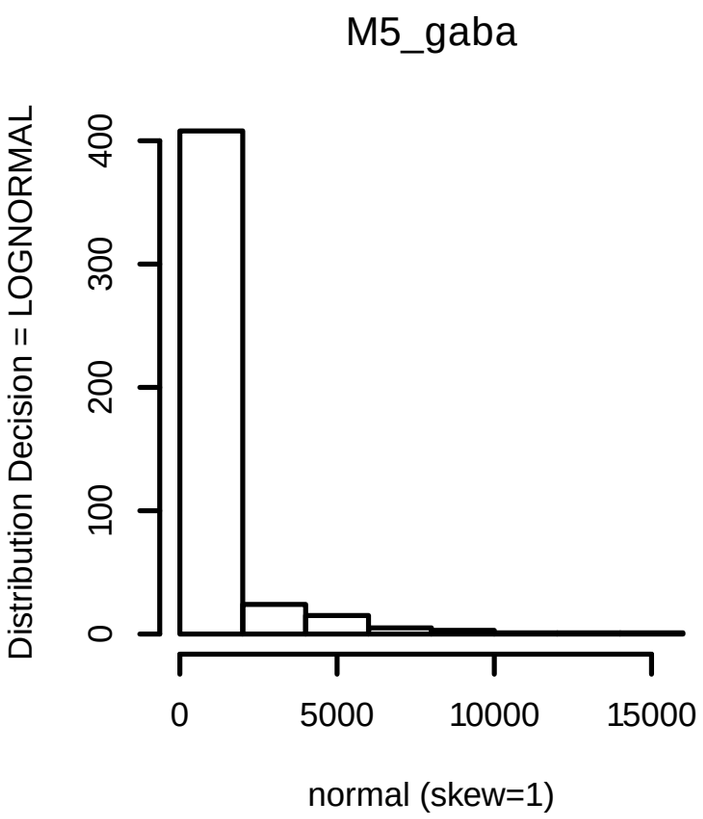

M5__deoxytetronic_acid
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
2
4
6
8
lognormal (skew=0.08)

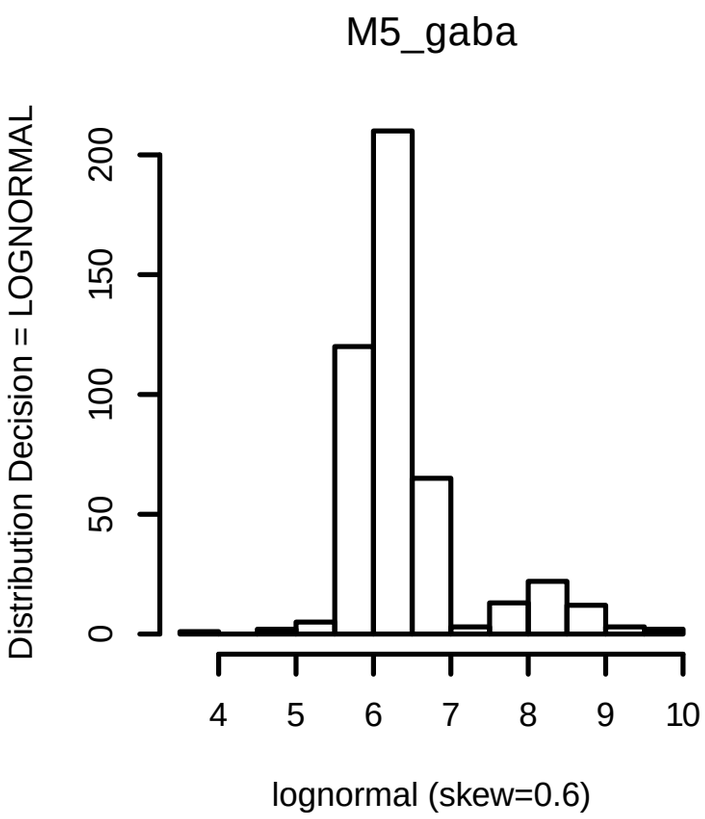

M5__monostearin
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.88)

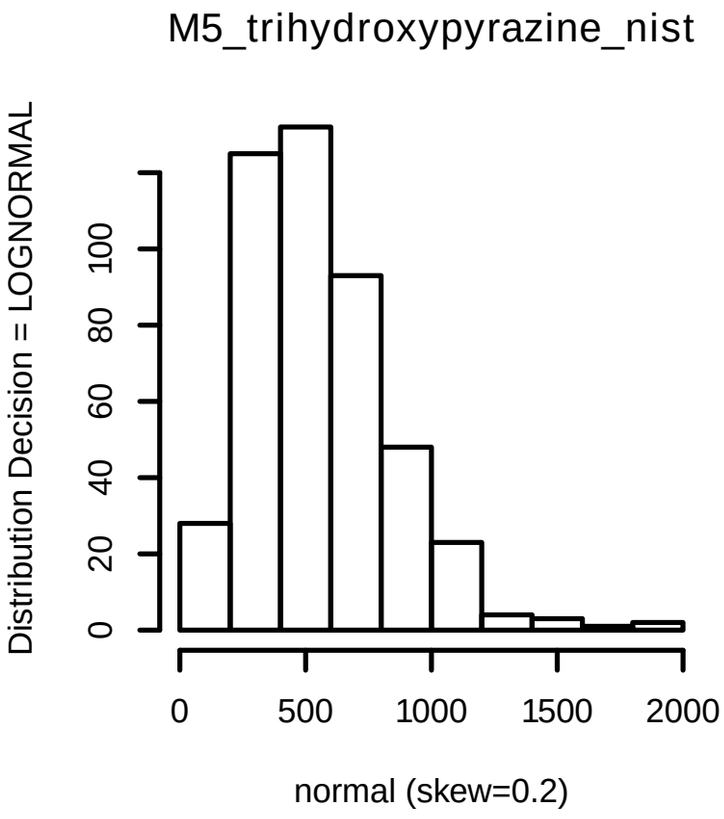

M5__monostearin
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
2
3
4
5
6
7
8
lognormal (skew=0.26)

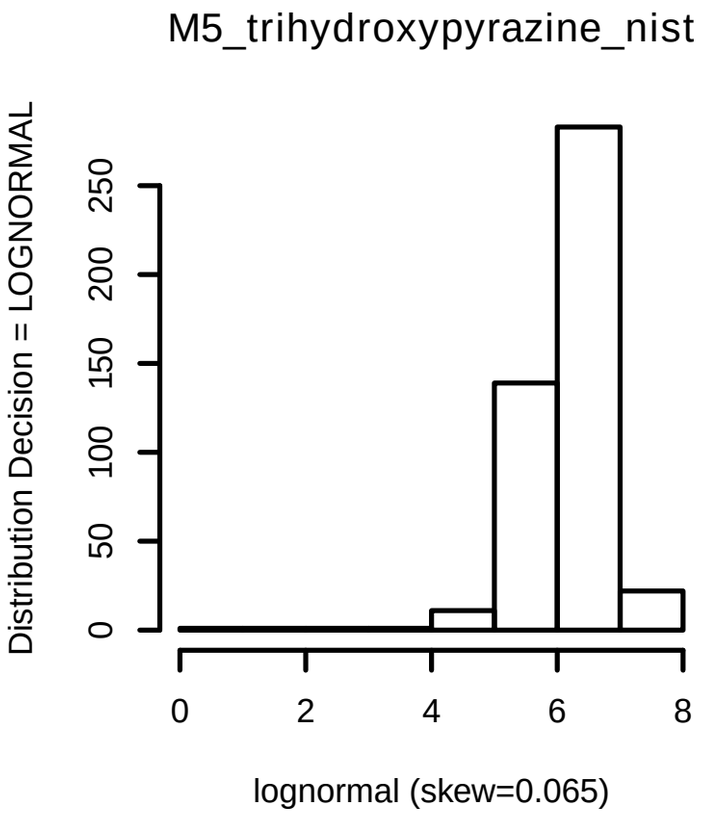

M5_dodecanol
Distribution Decision = NORMAL
0
50
100
150
200
250
0
1000
2000
3000
4000
normal (skew=0.56)

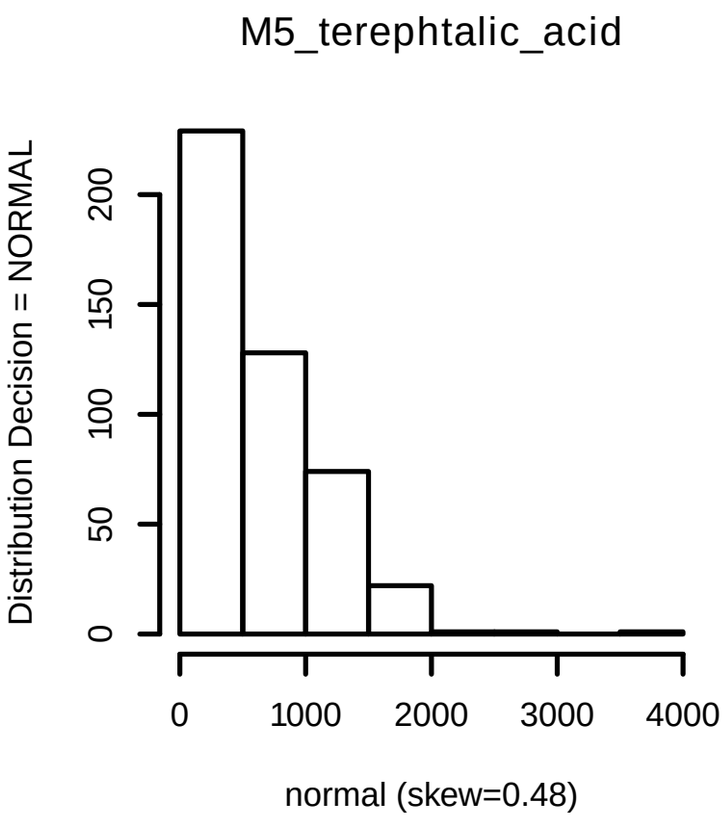

M5_dodecanol
Distribution Decision = NORMAL
0
50
100
200
300
0
2
4
6
8
lognormal (skew=2.8)

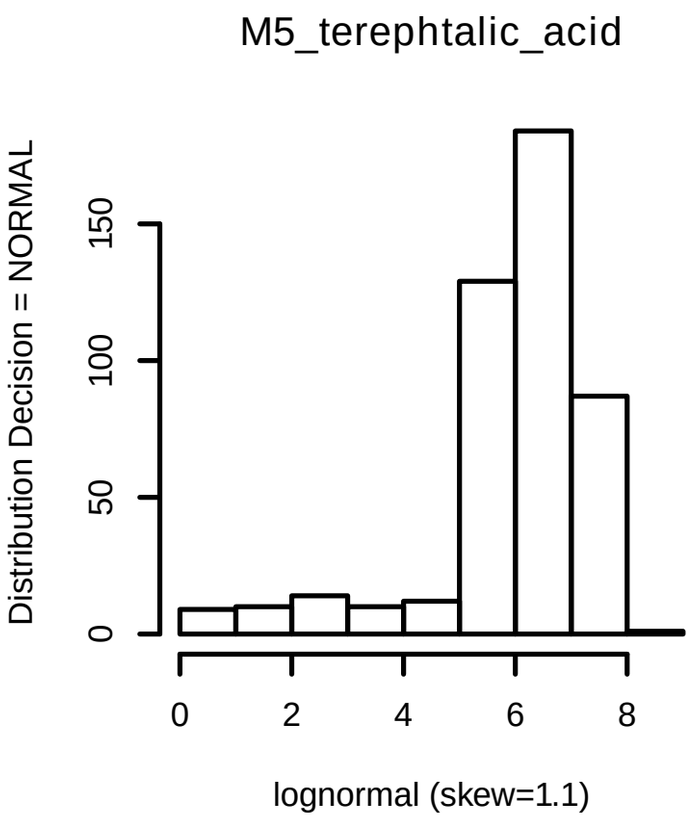

M5_gaba
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
15000
normal (skew=1)

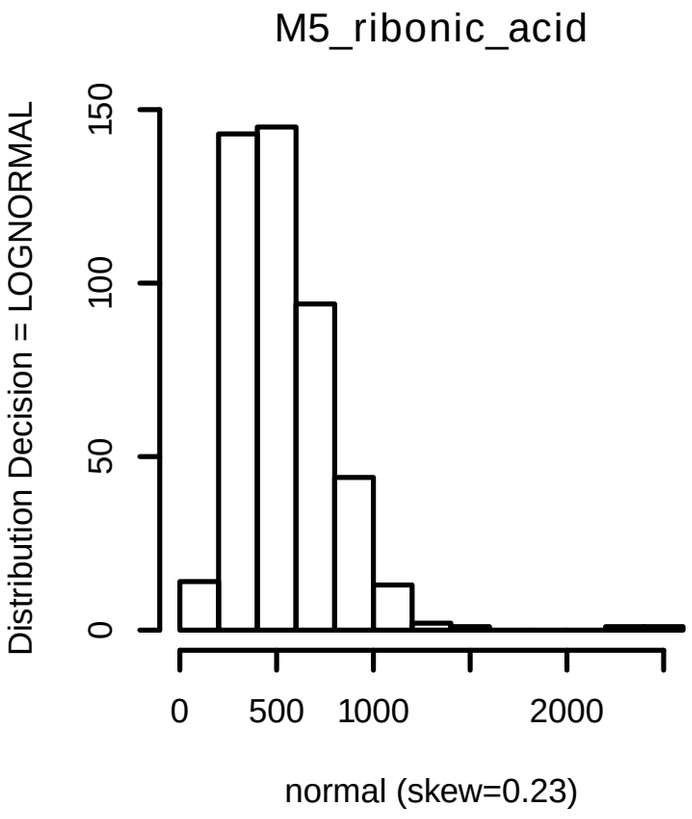

M5_gaba
Distribution Decision = LOGNORMAL
0
50
100
150
200
4
5
6
7
8
9
10
lognormal (skew=0.6)

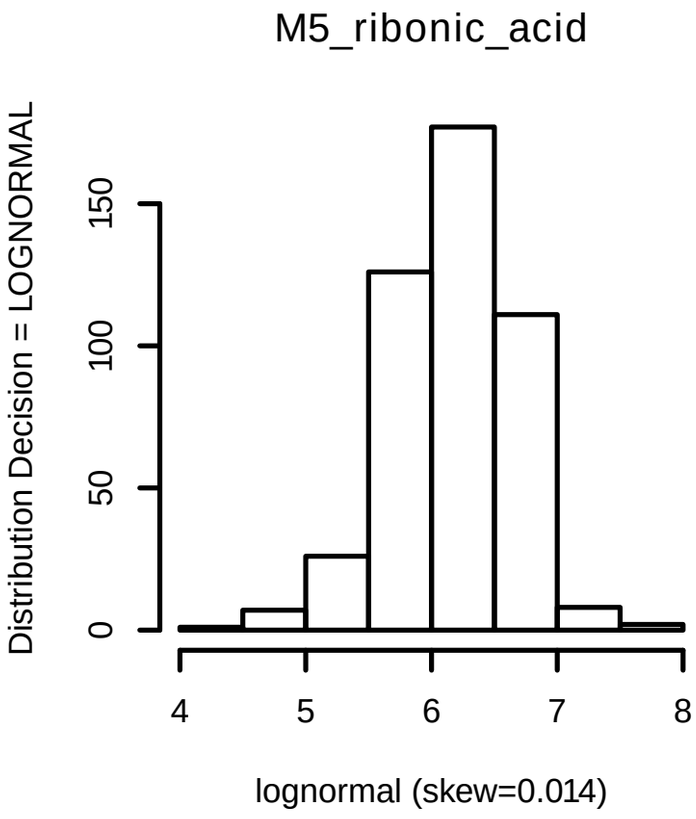

M5_trihydroxypyrazine_nist
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
500
1000
1500
2000
normal (skew=0.2)

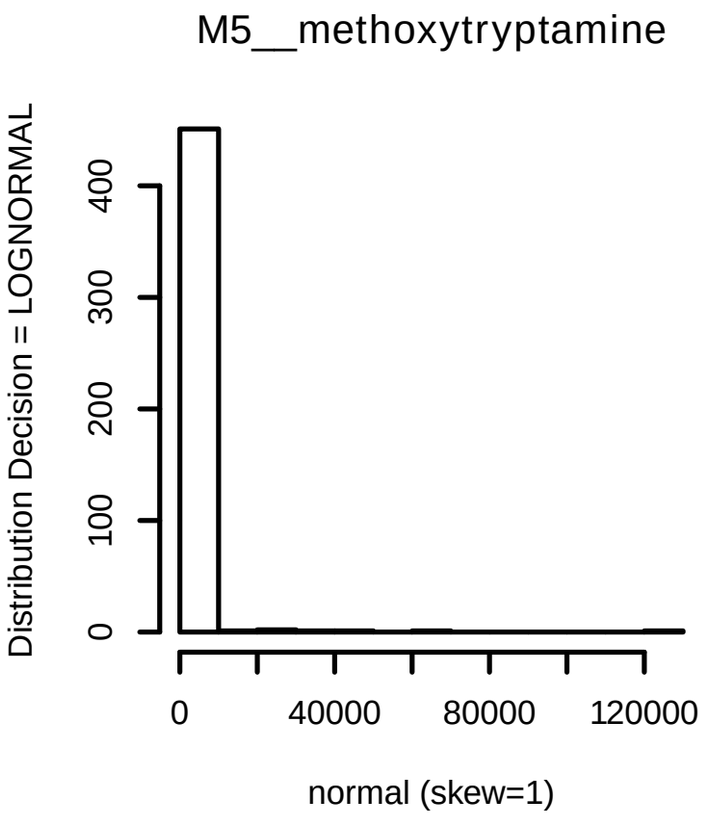

M5_trihydroxypyrazine_nist
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.065)

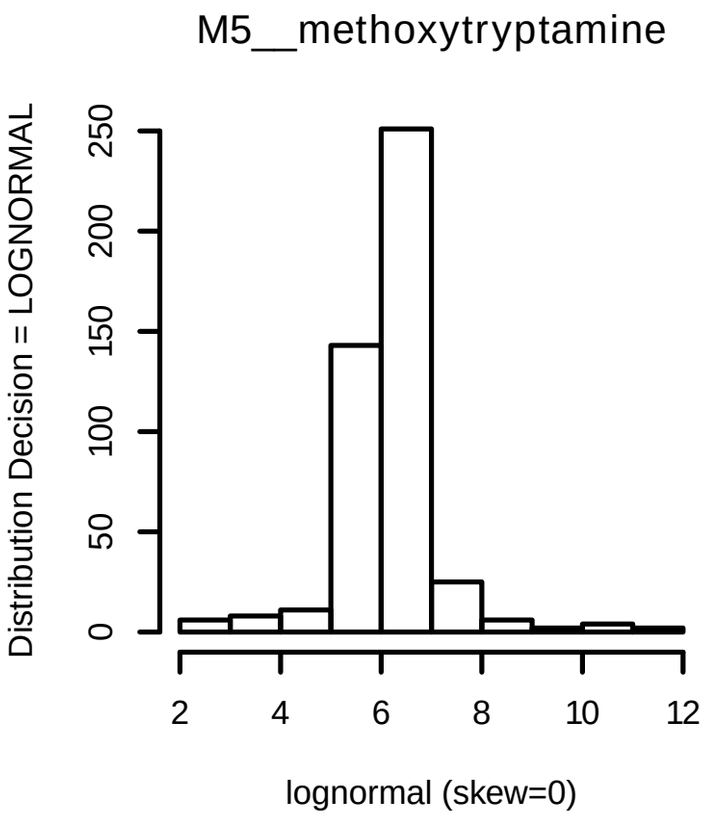

M5_terephtalic_acid
Distribution Decision = NORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.48)

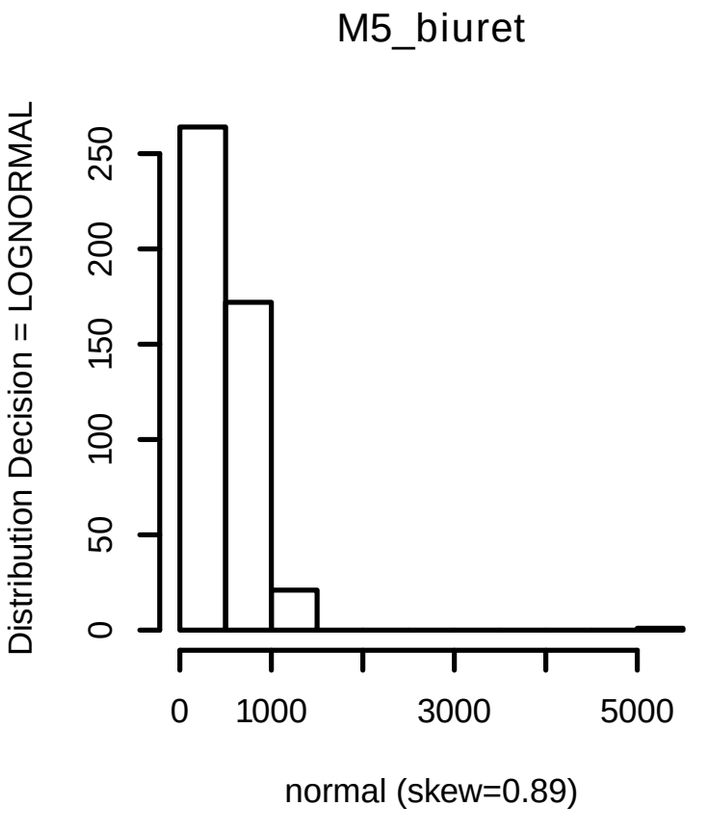

M5_terephtalic_acid
Distribution Decision = NORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=1.1)

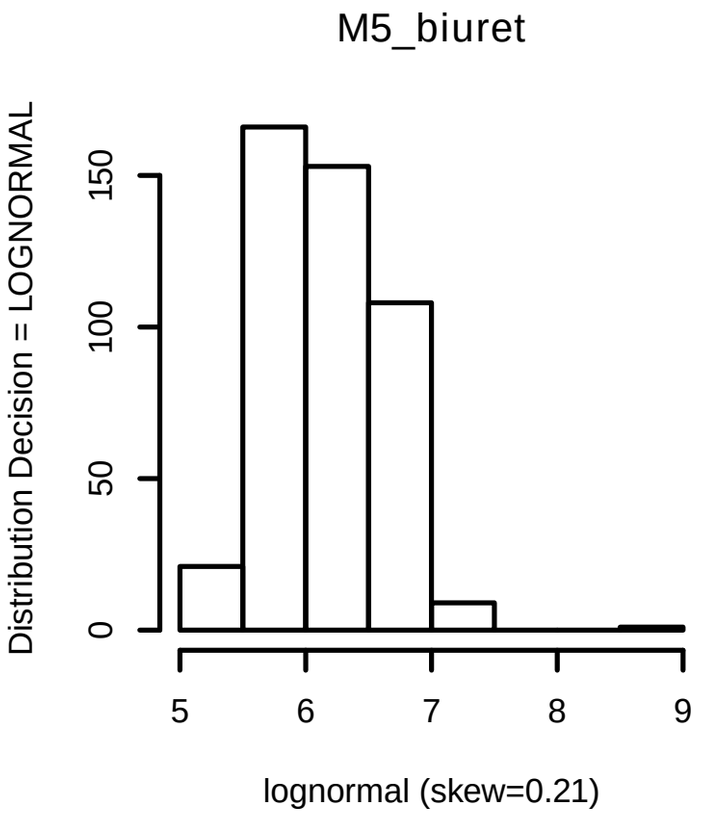

M5_ribonic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
500
1000
2000
normal (skew=0.23)

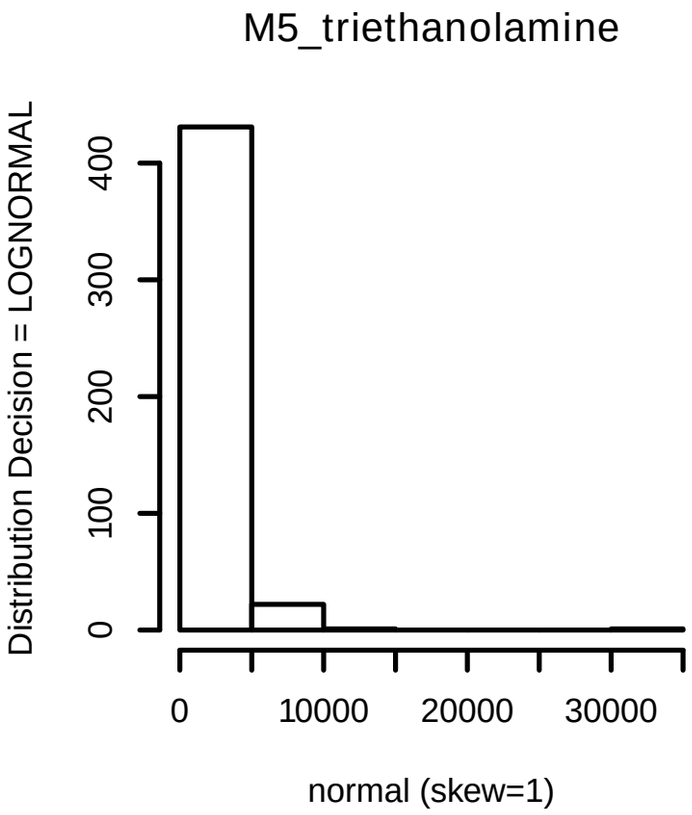

M5_ribonic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.014)

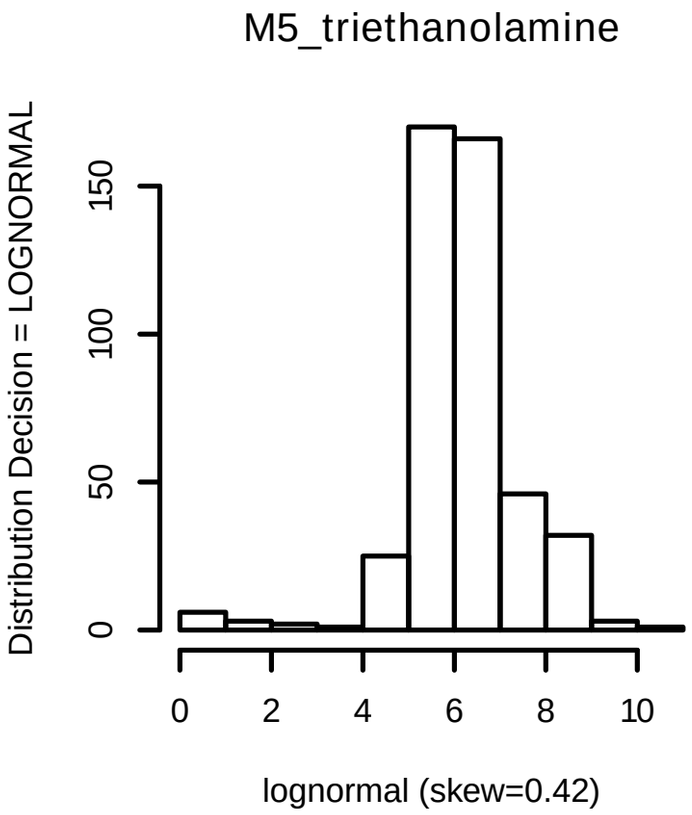

M5__methoxytryptamine
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
40000
80000
120000
normal (skew=1)

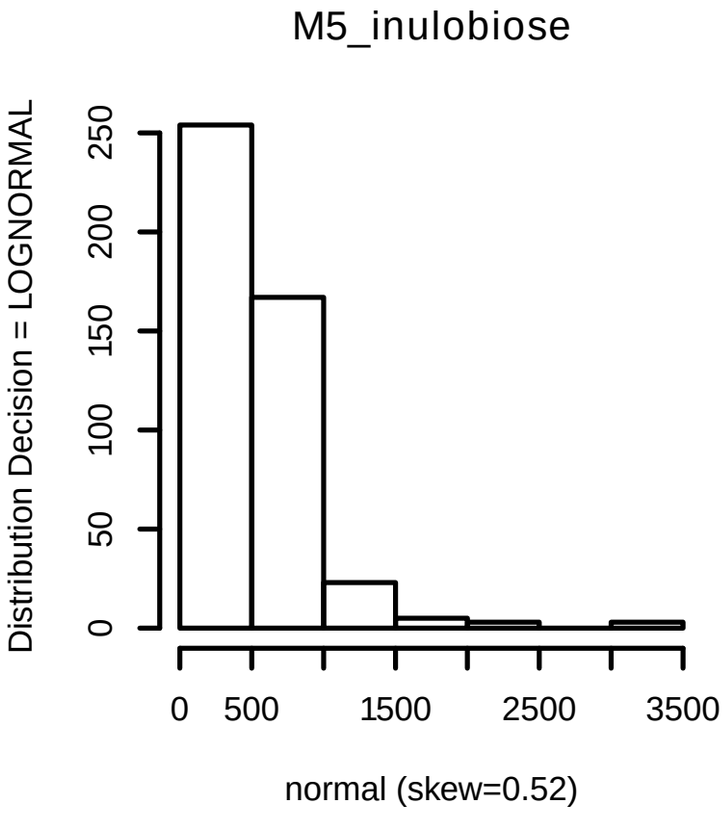

M5__methoxytryptamine
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
2
4
6
8
10
12
lognormal (skew=0)

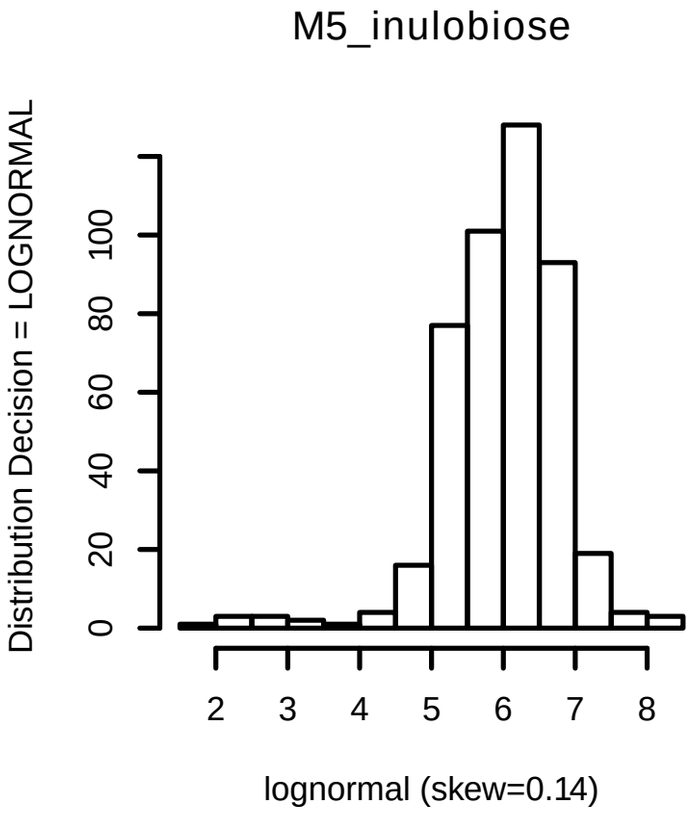

M5_biuret
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
3000
5000
normal (skew=0.89)

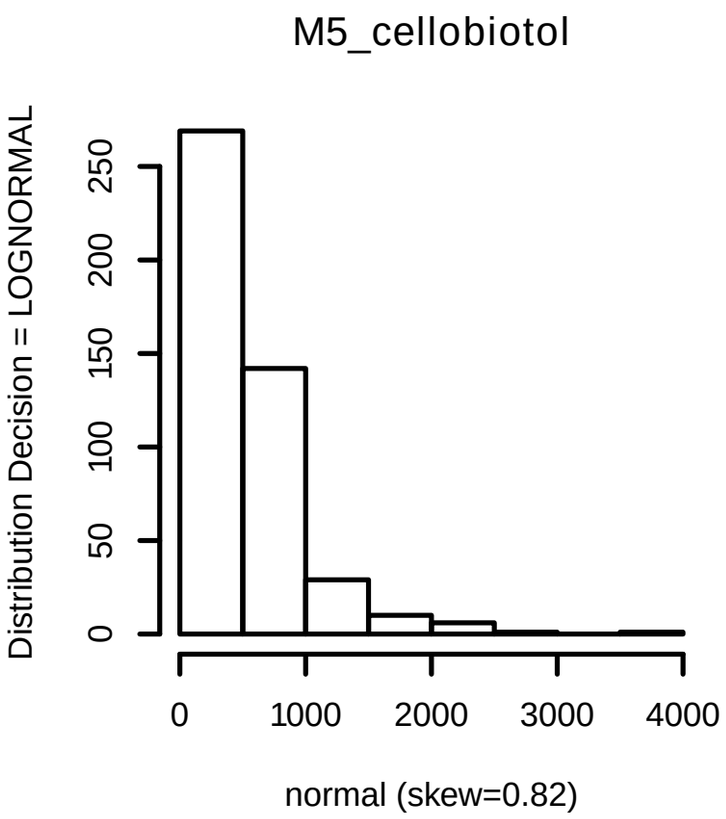

M5_biuret
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
lognormal (skew=0.21)

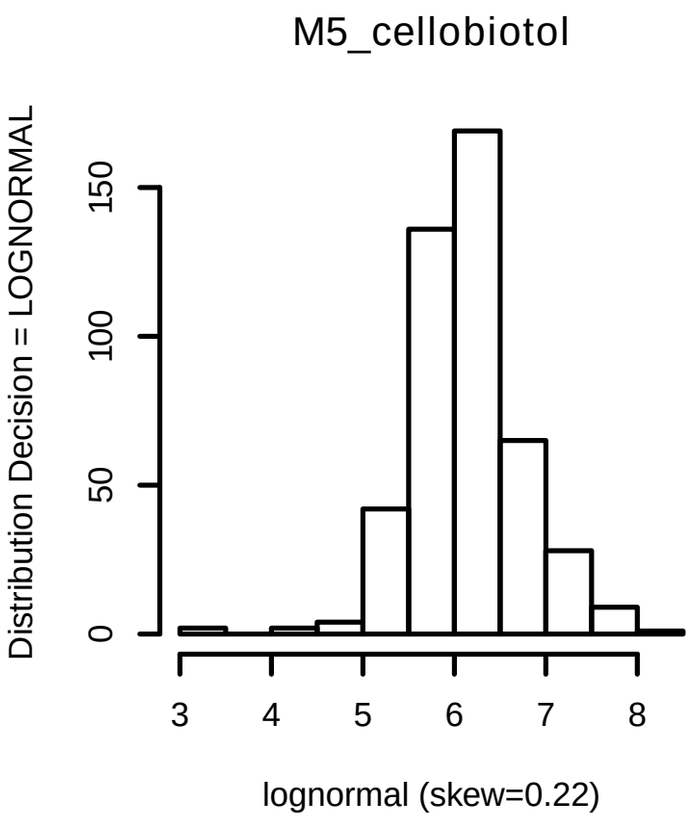

M5_triethanolamine
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
20000
30000
normal (skew=1)

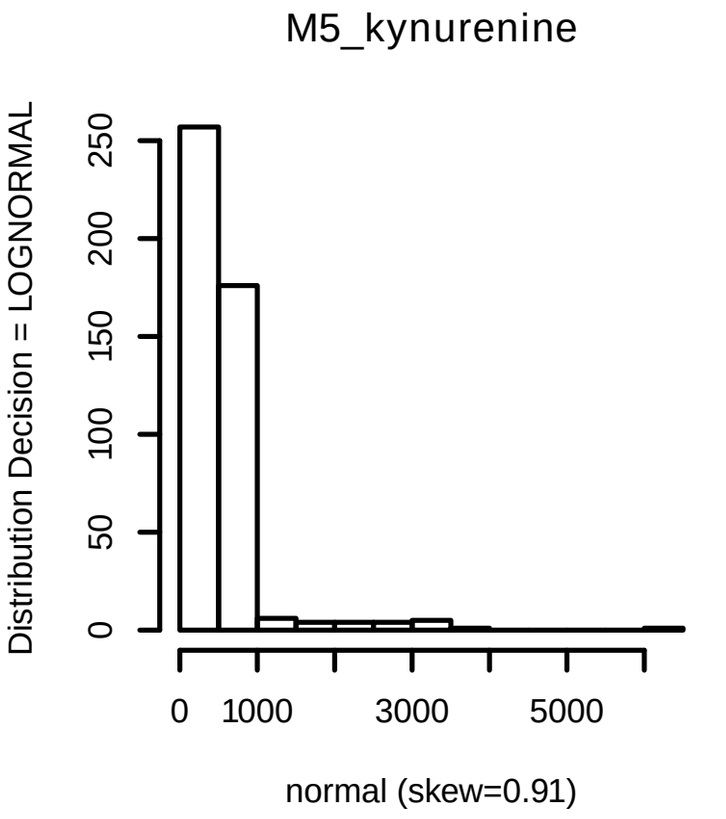

M5_triethanolamine
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
lognormal (skew=0.42)

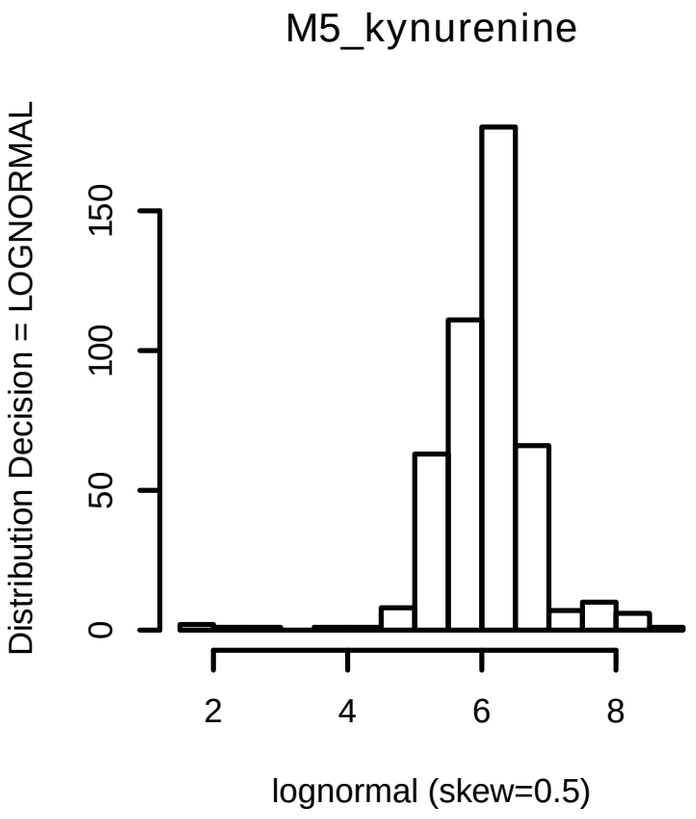

M5_inulobiose
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
500
1500
2500
3500
normal (skew=0.52)

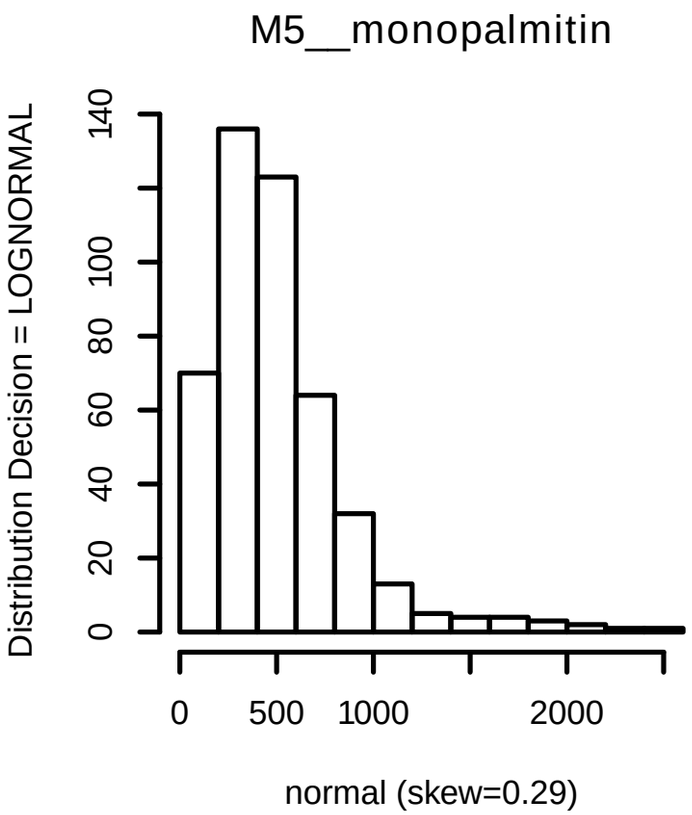

M5_inulobiose
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
2
3
4
5
6
7
8
lognormal (skew=0.14)

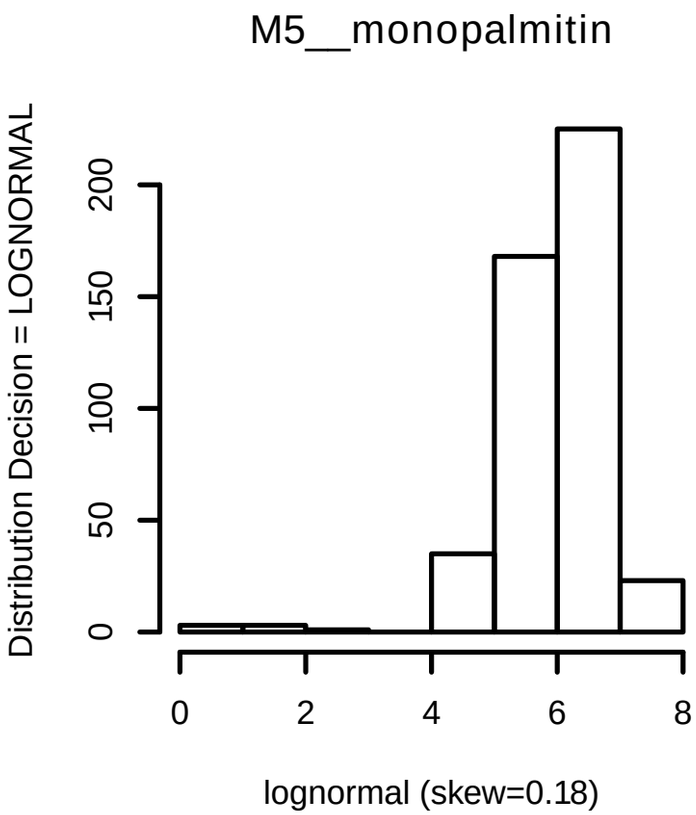

M5_cellobiotol
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
2000
3000
4000
normal (skew=0.82)

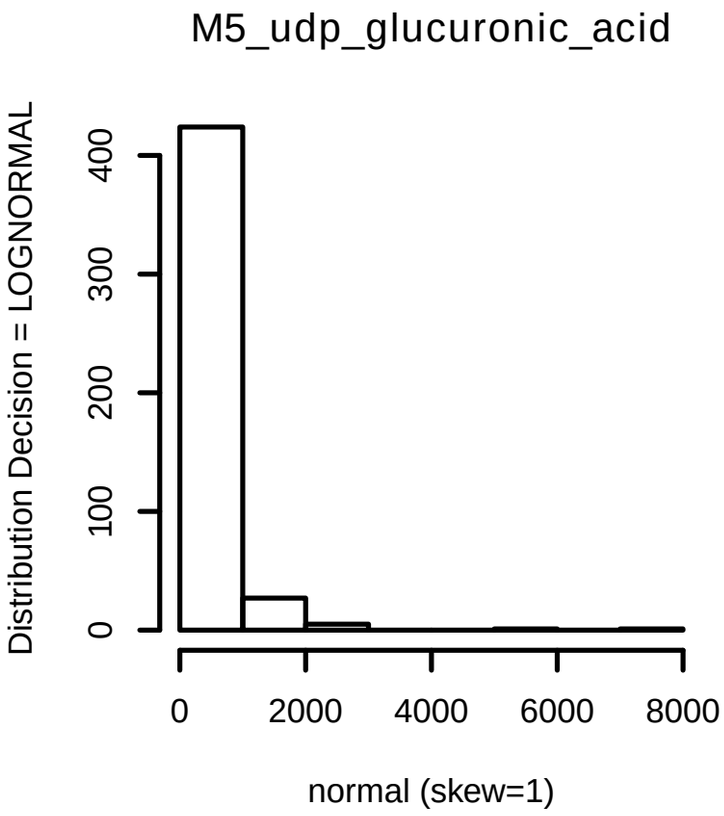

M5_cellobiotol
Distribution Decision = LOGNORMAL
0
50
100
150
3
4
5
6
7
8
lognormal (skew=0.22)

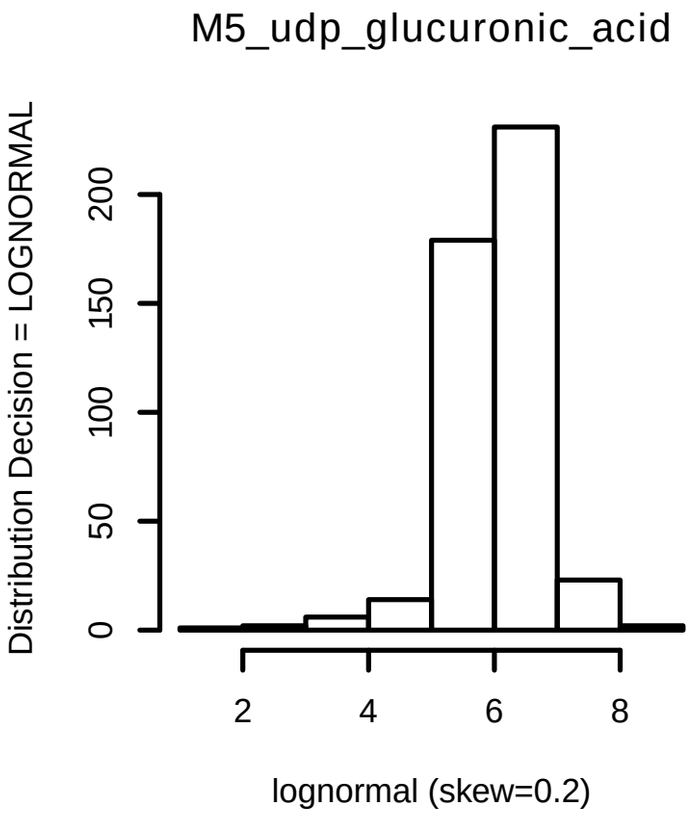

M5_kynurenine
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
3000
5000
normal (skew=0.91)

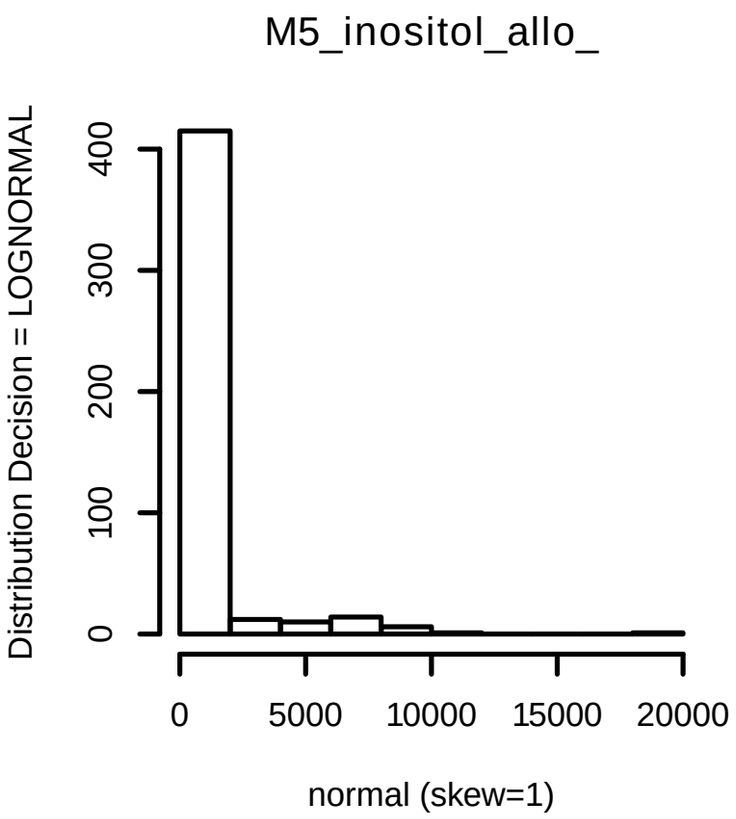

M5_kynurenine
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
lognormal (skew=0.5)

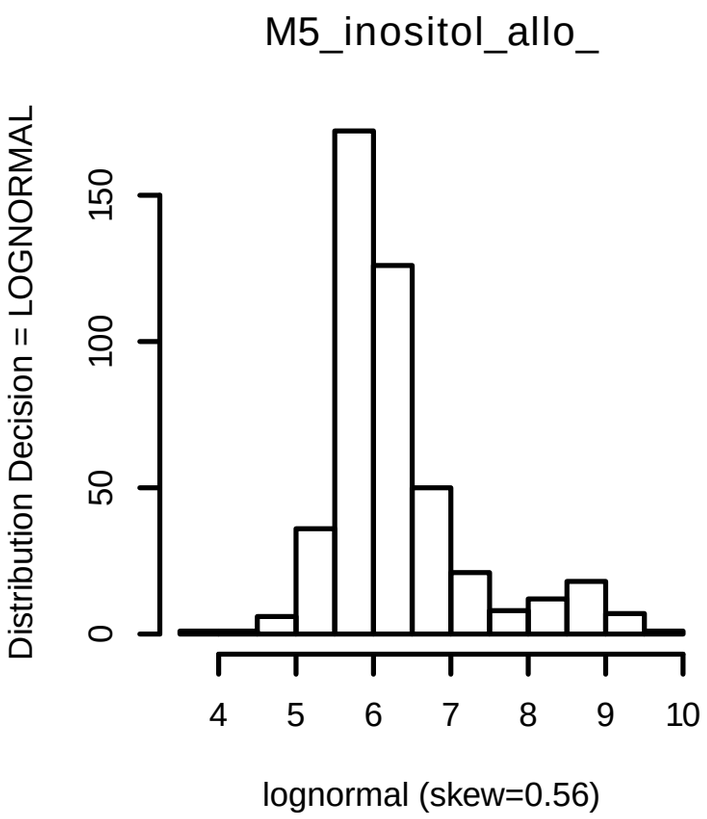

M5__monopalmitin
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
0
500
1000
2000
normal (skew=0.29)

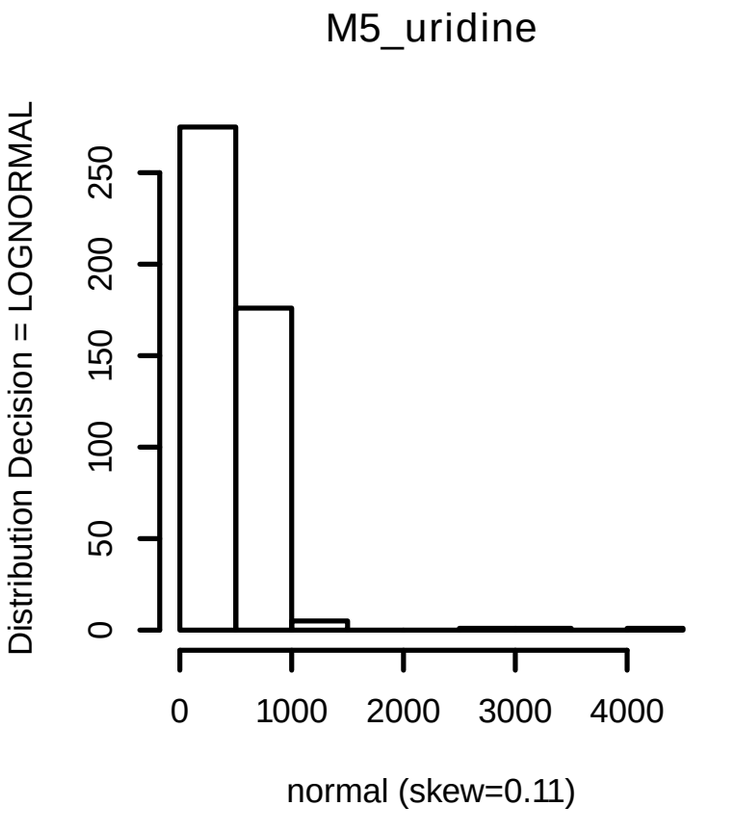

M5__monopalmitin
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.18)

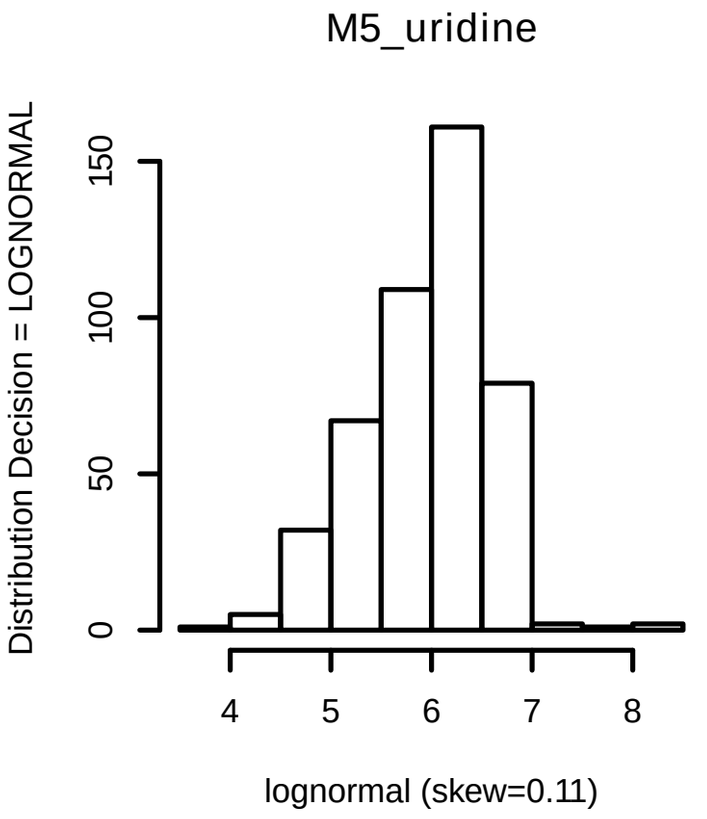

M5_udp_glucuronic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
2000
4000
6000
8000
normal (skew=1)

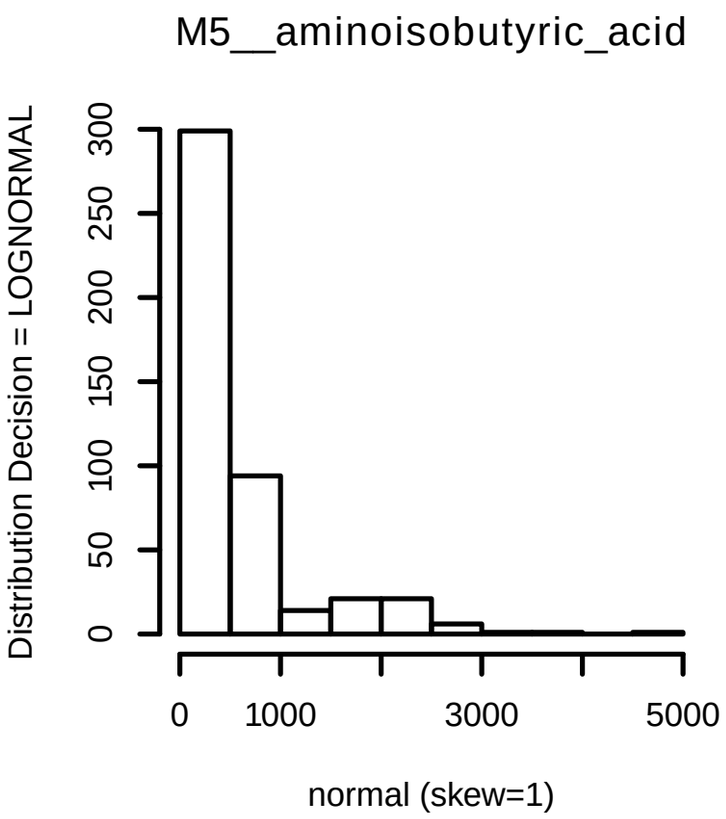

M5_udp_glucuronic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
lognormal (skew=0.2)

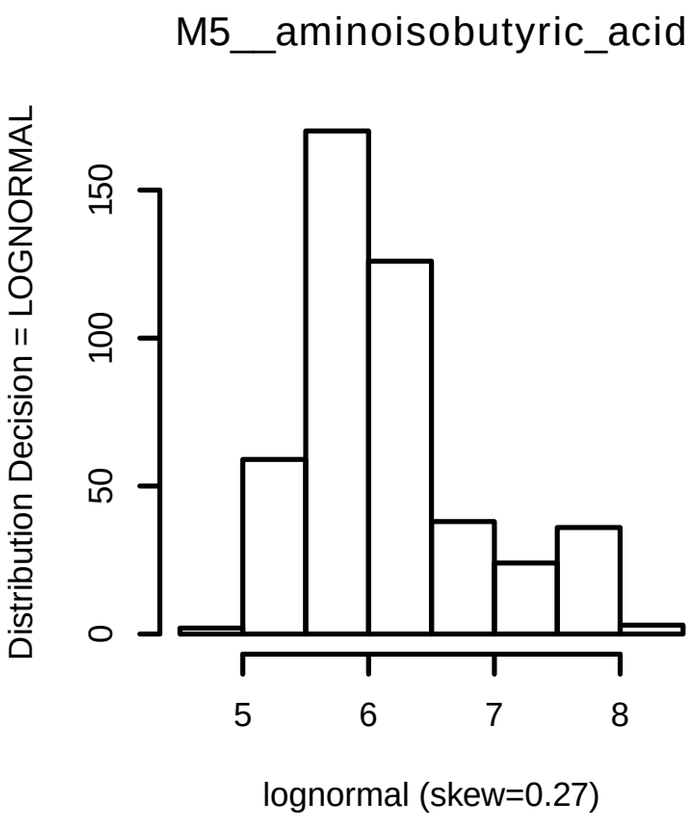

M5_inositol_allo_
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
15000
20000
normal (skew=1)

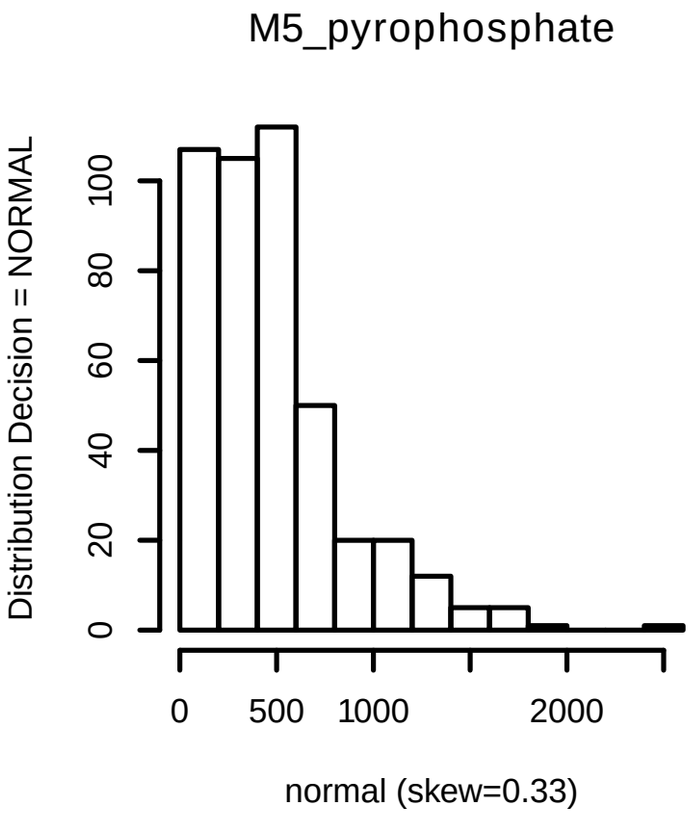

M5_inositol_allo_
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
9
10
lognormal (skew=0.56)

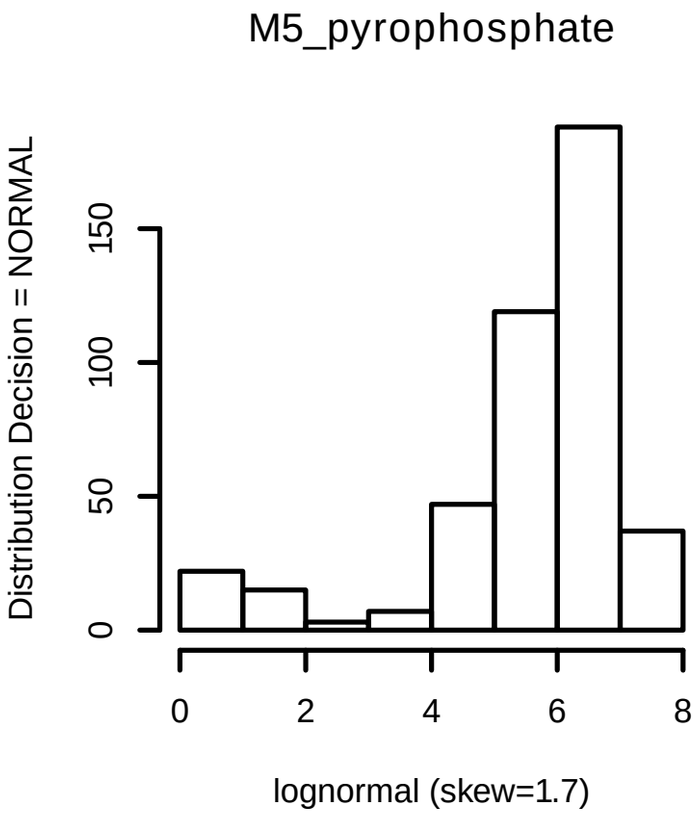

M5_uridine
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
2000
3000
4000
normal (skew=0.11)

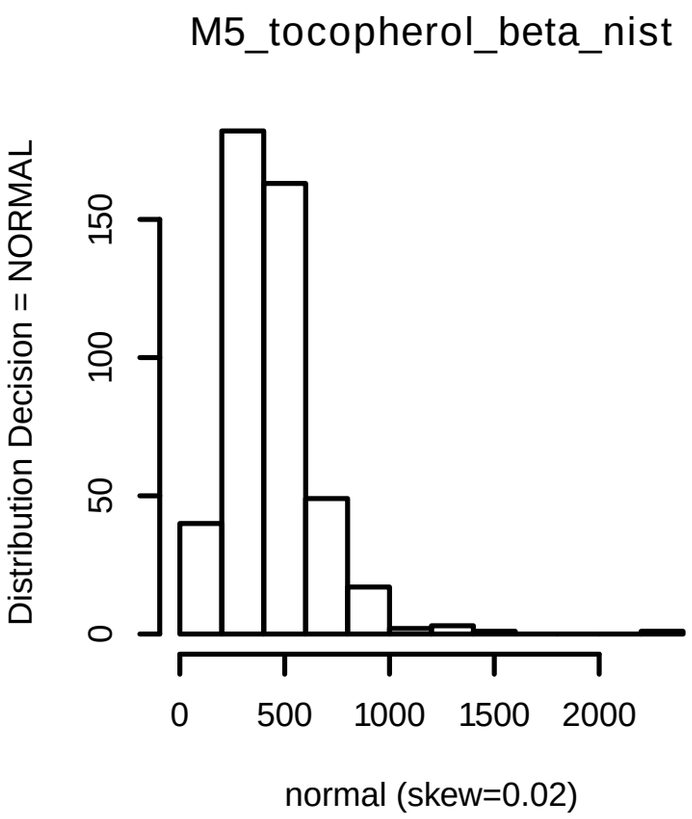

M5_uridine
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.11)

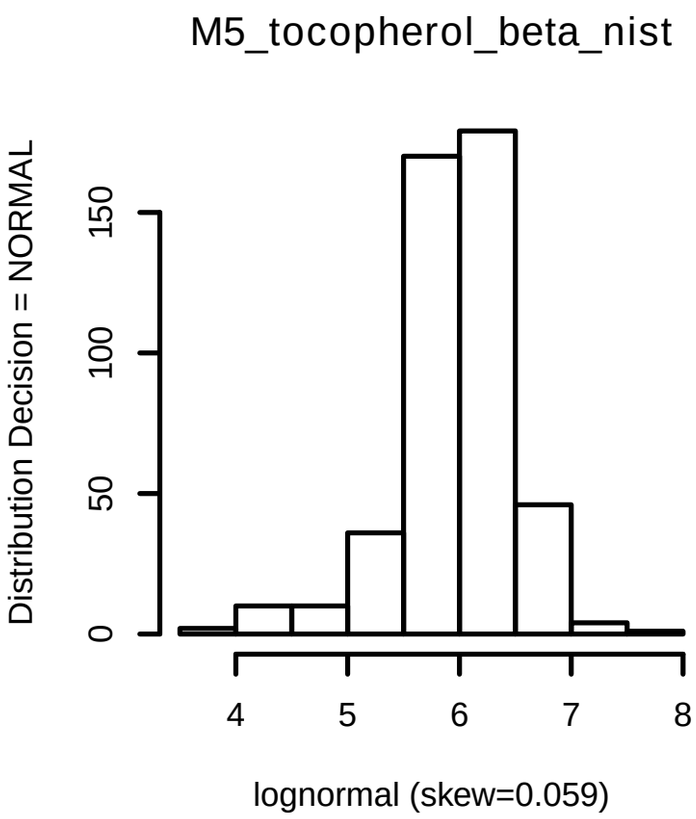

M5__aminoisobutyric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
1000
3000
5000
normal (skew=1)

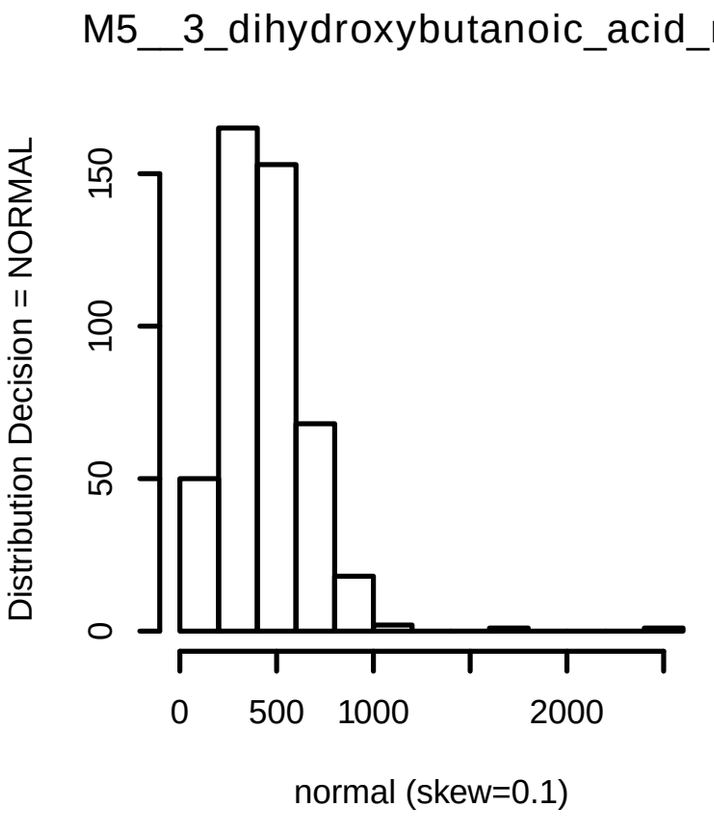

M5__aminoisobutyric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
lognormal (skew=0.27)

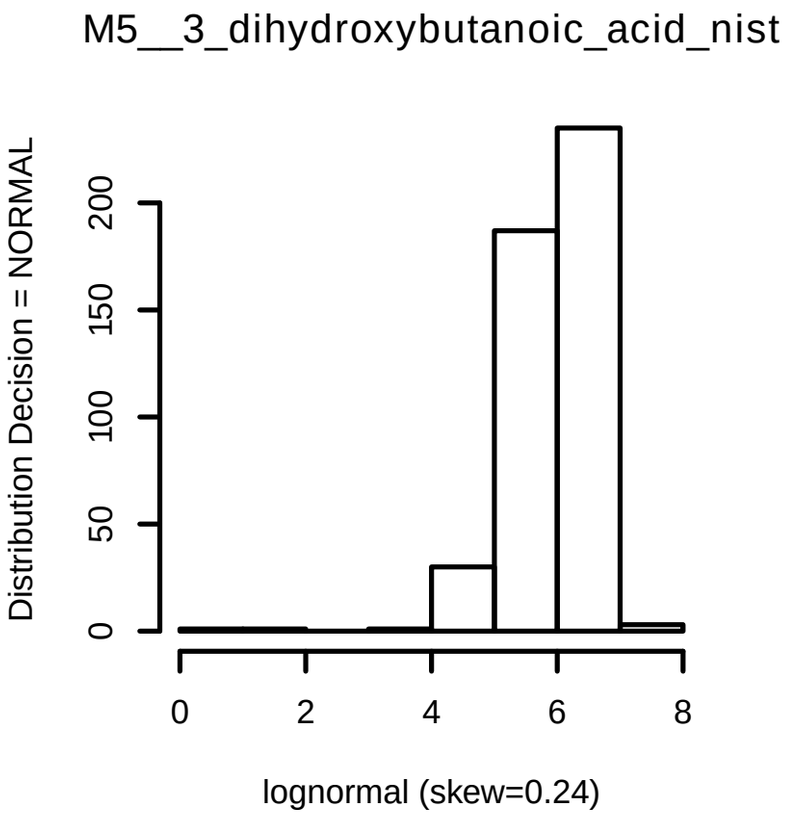

M5_pyrophosphate
Distribution Decision = NORMAL
0
20
40
60
80
100
0
500
1000
2000
normal (skew=0.33)

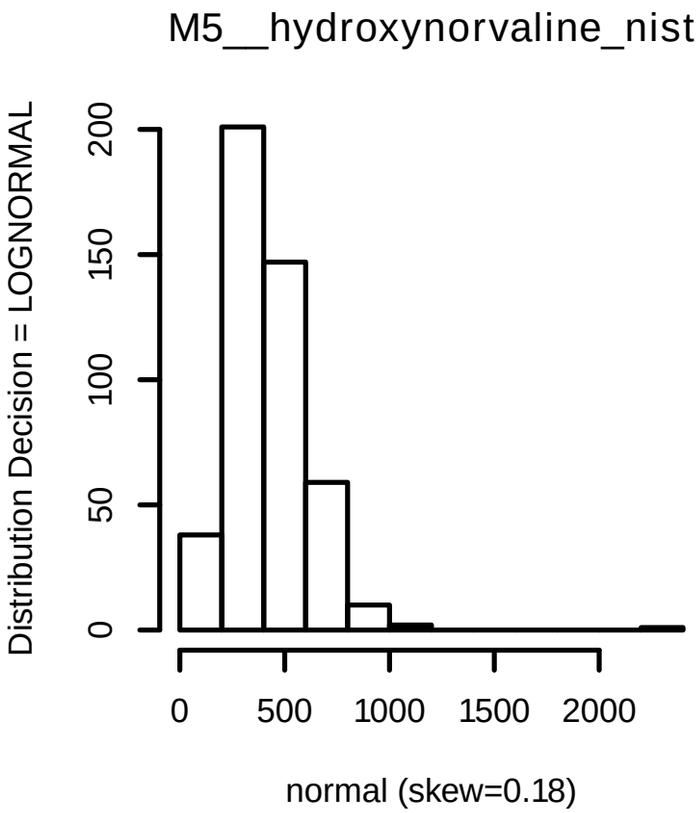

M5_pyrophosphate
Distribution Decision = NORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=1.7)

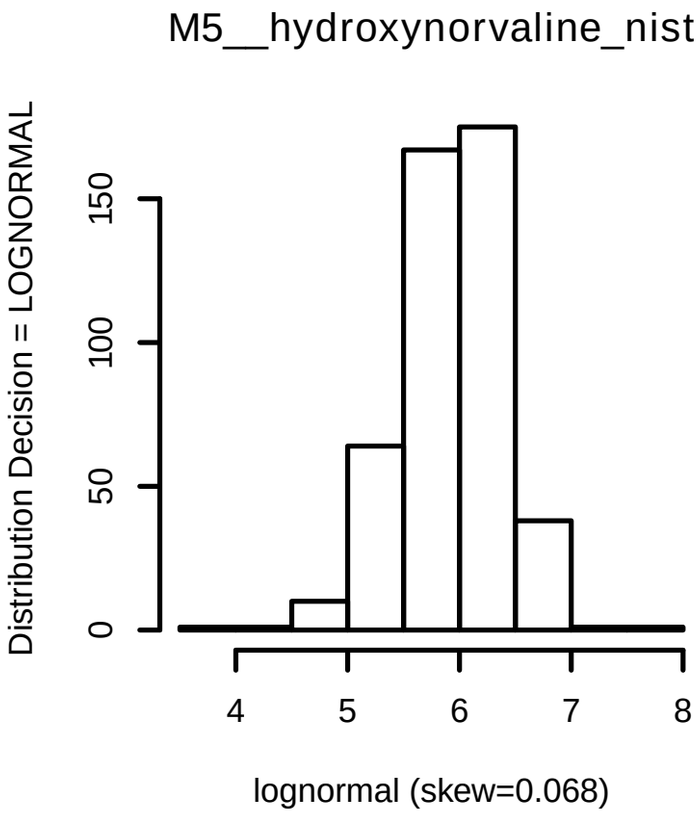

M5_tocopherol_beta_nist
Distribution Decision = NORMAL
0
50
100
150
0
500
1000
1500
2000
normal (skew=0.02)

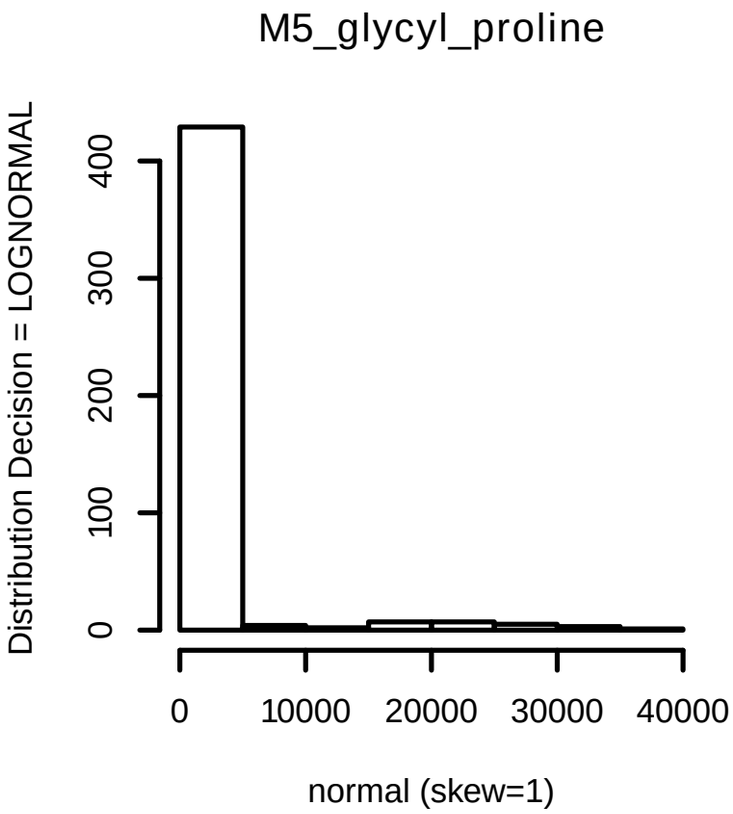

M5_tocopherol_beta_nist
Distribution Decision = NORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.059)

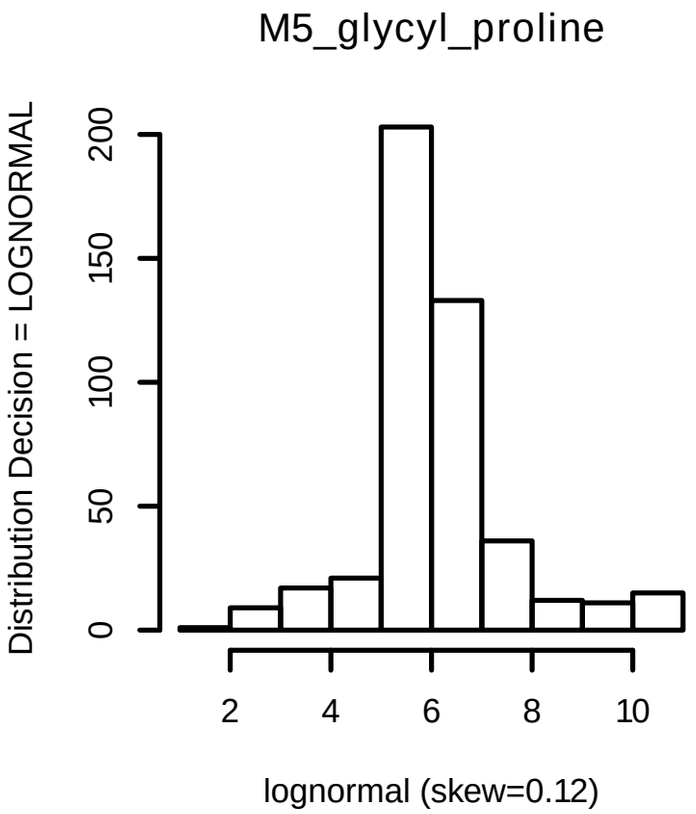

M5__3_dihydroxybutanoic_acid_nist
Distribution Decision = NORMAL
0
50
100
150
0
500
1000
2000
normal (skew=0.1)

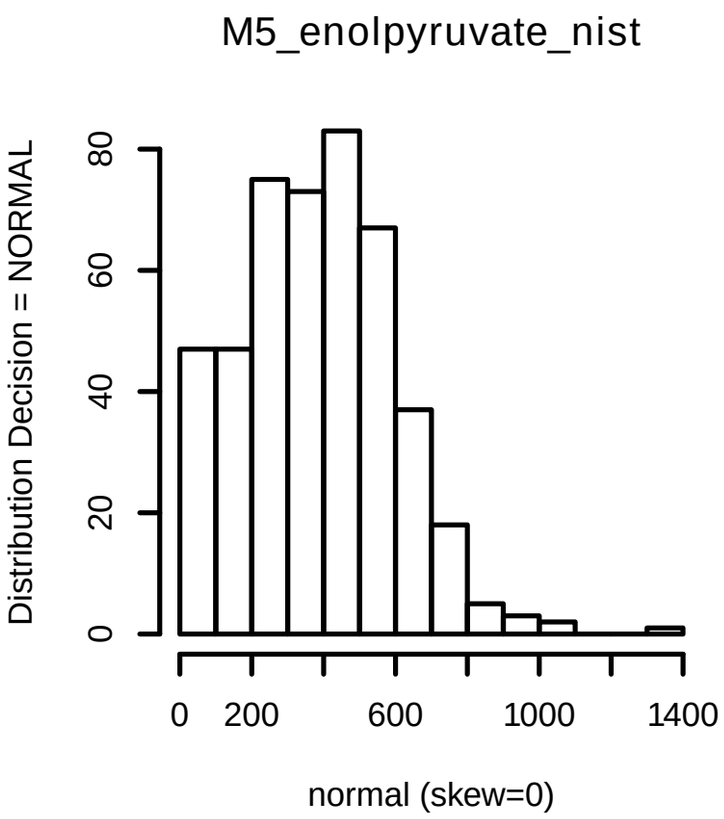

M5__3_dihydroxybutanoic_acid_nist
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.24)

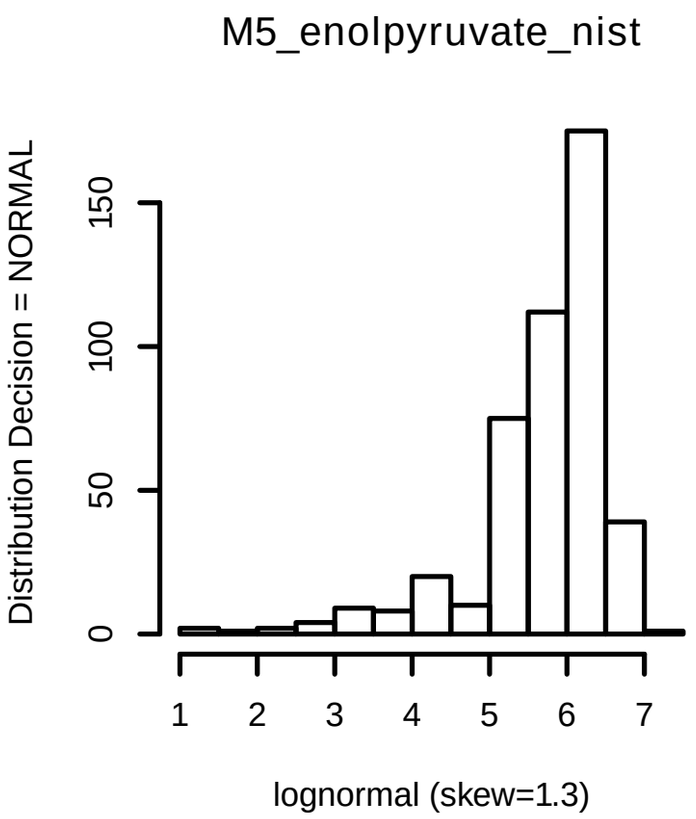

M5__hydroxynorvaline_nist
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1000
1500
2000
normal (skew=0.18)

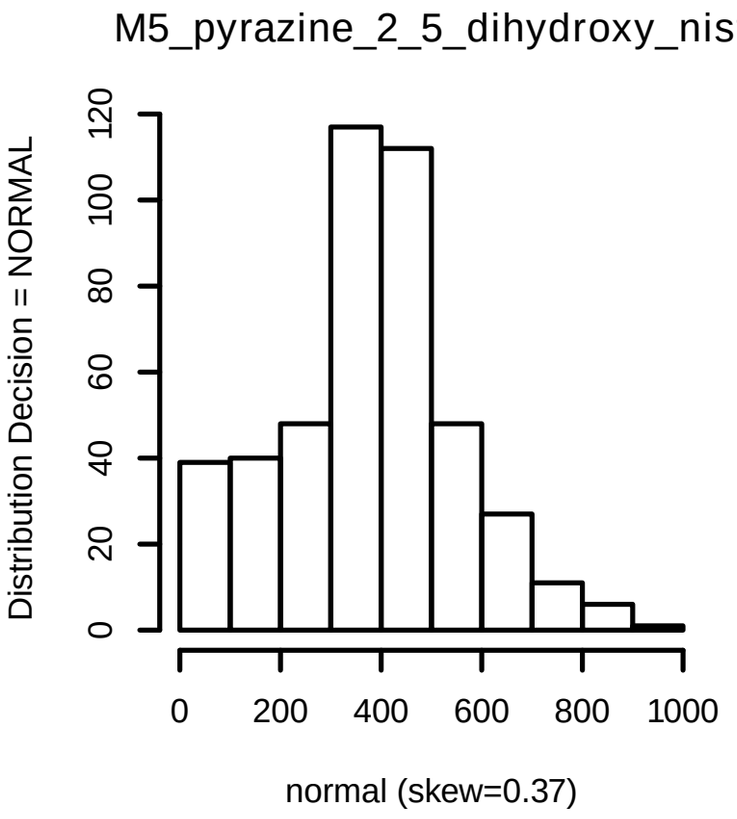

M5__hydroxynorvaline_nist
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.068)

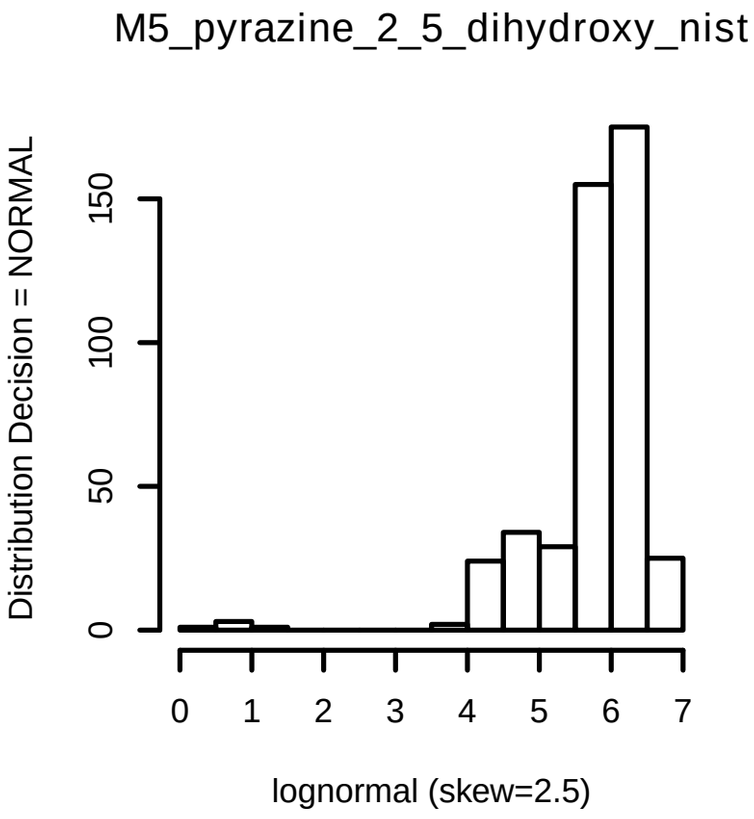

M5_glycyl_proline
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
20000
30000
40000
normal (skew=1)

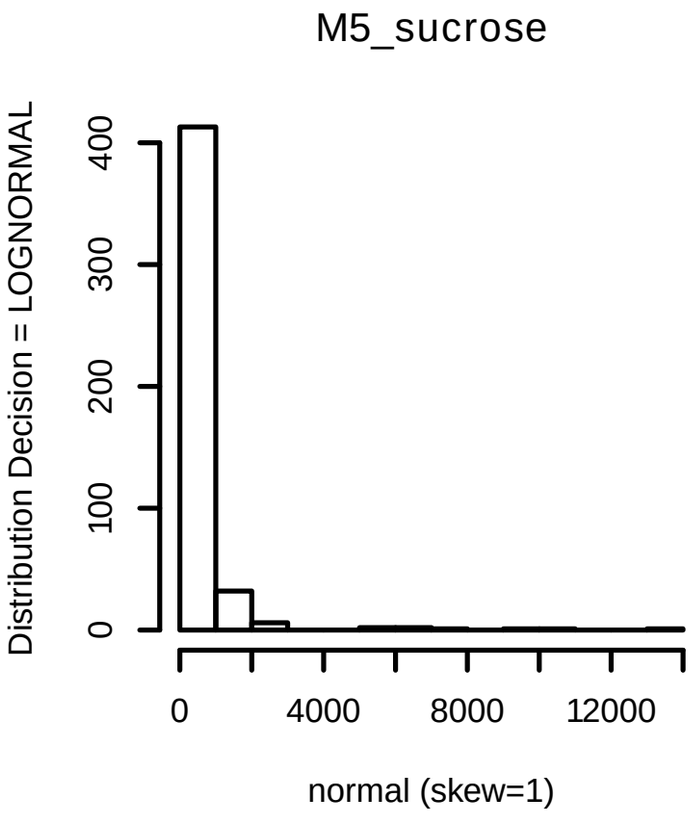

M5_glycyl_proline
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
10
lognormal (skew=0.12)

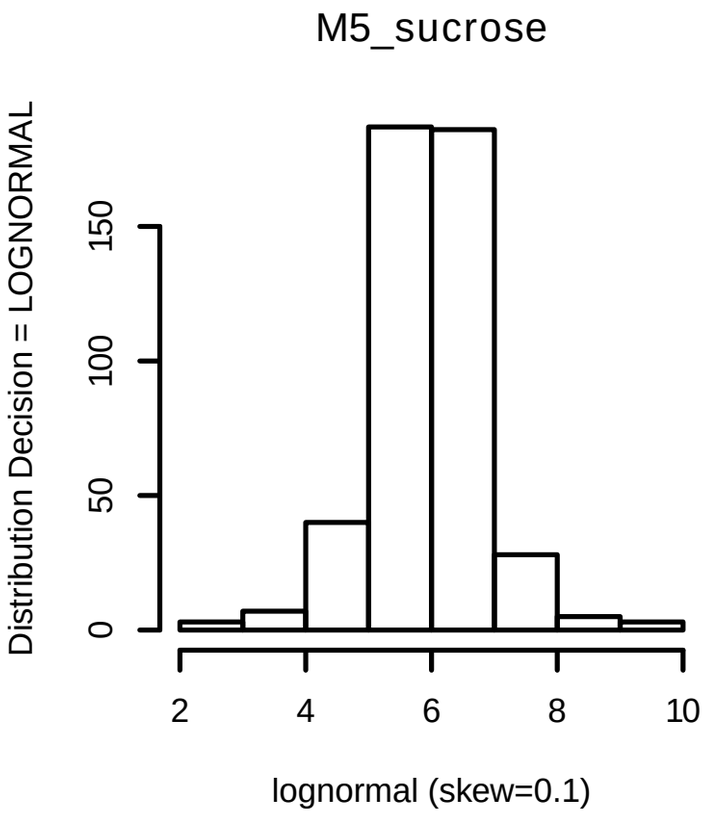

M5_enolpyruvate_nist
Distribution Decision = NORMAL
0
20
40
60
80
0
200
600
1000
1400
normal (skew=0)

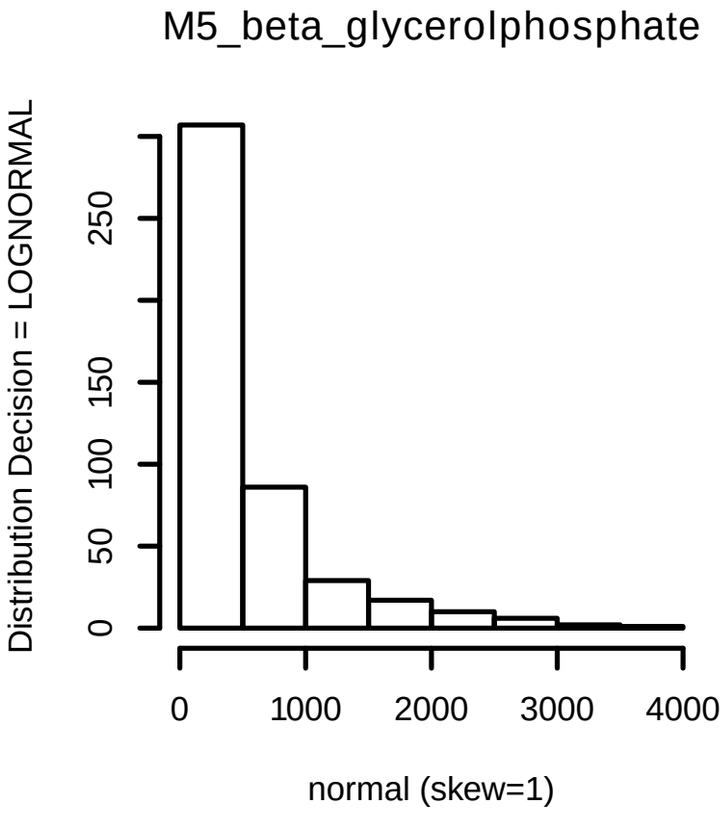

M5_enolpyruvate_nist
Distribution Decision = NORMAL
0
50
100
150
1
2
3
4
5
6
7
lognormal (skew=1.3)

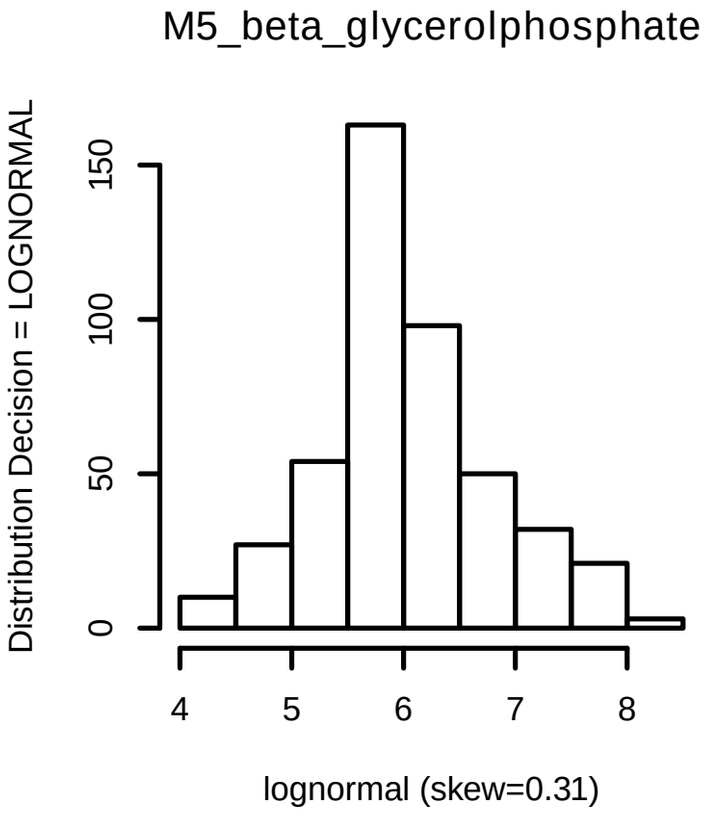

M5_pyrazine_2_5_dihydroxy_nist
Distribution Decision = NORMAL
0
20
40
60
80
100
120
0
200
400
600
800
1000
normal (skew=0.37)

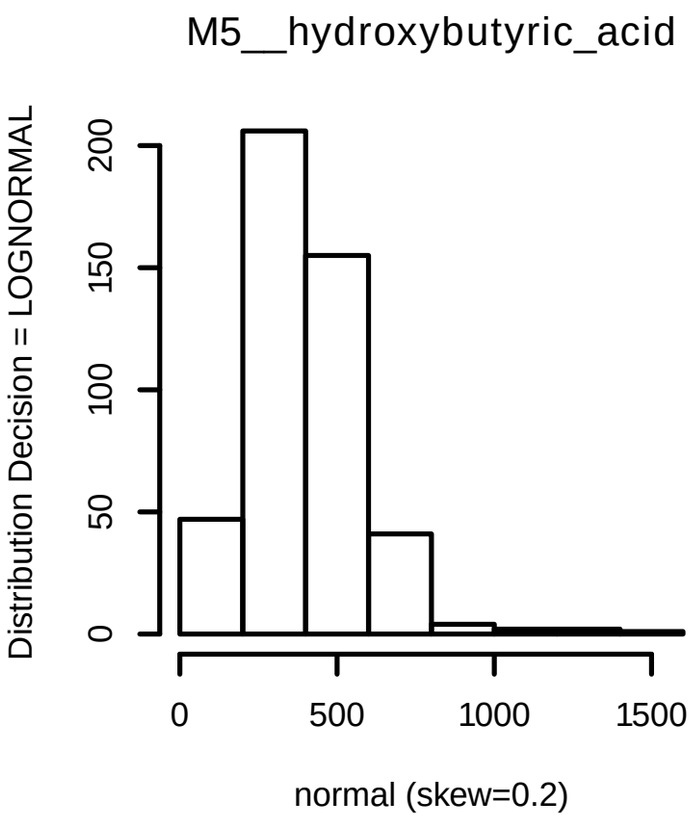

M5_pyrazine_2_5_dihydroxy_nist
Distribution Decision = NORMAL
0
50
100
150
0
1
2
3
4
5
6
7
lognormal (skew=2.5)

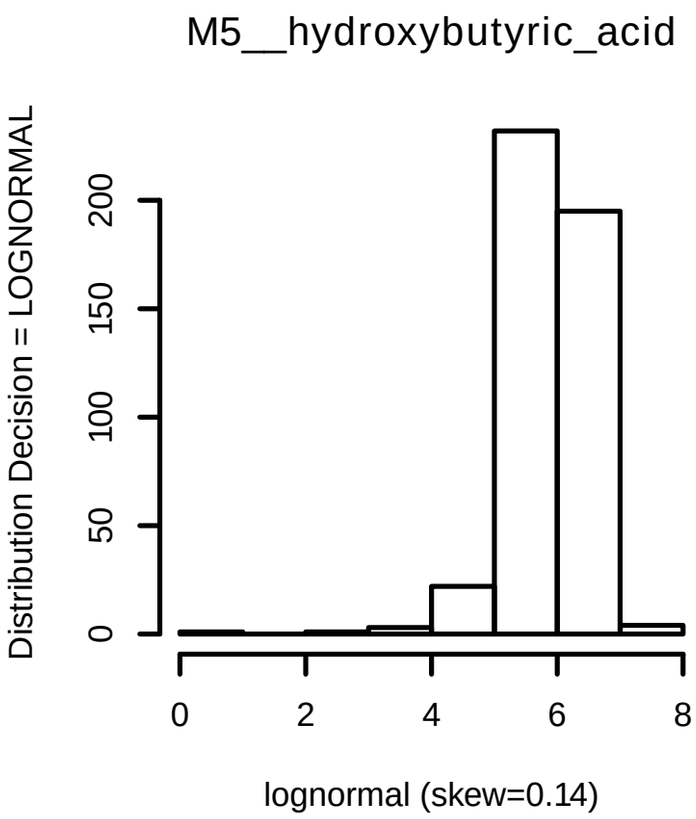

M5_sucrose
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
4000
8000
12000
normal (skew=1)

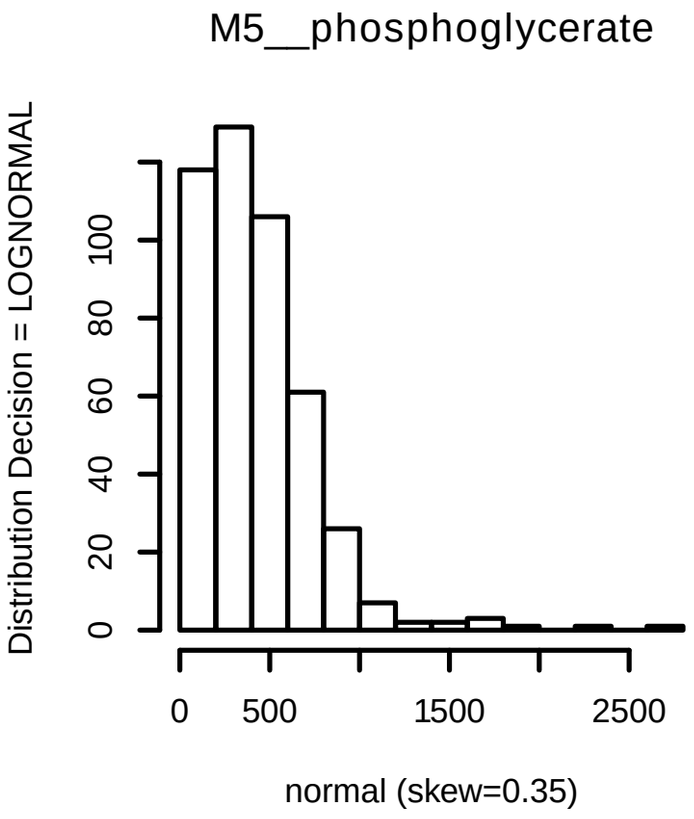

M5_sucrose
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=0.1)

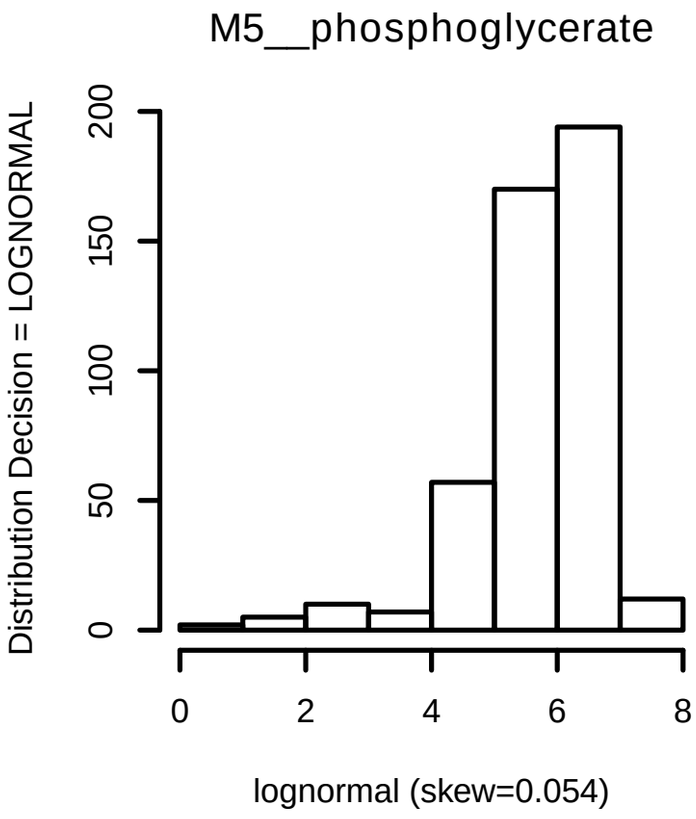

M5_beta_glycerolphosphate
Distribution Decision = LOGNORMAL
0
50
100
150
250
0
1000
2000
3000
4000
normal (skew=1)

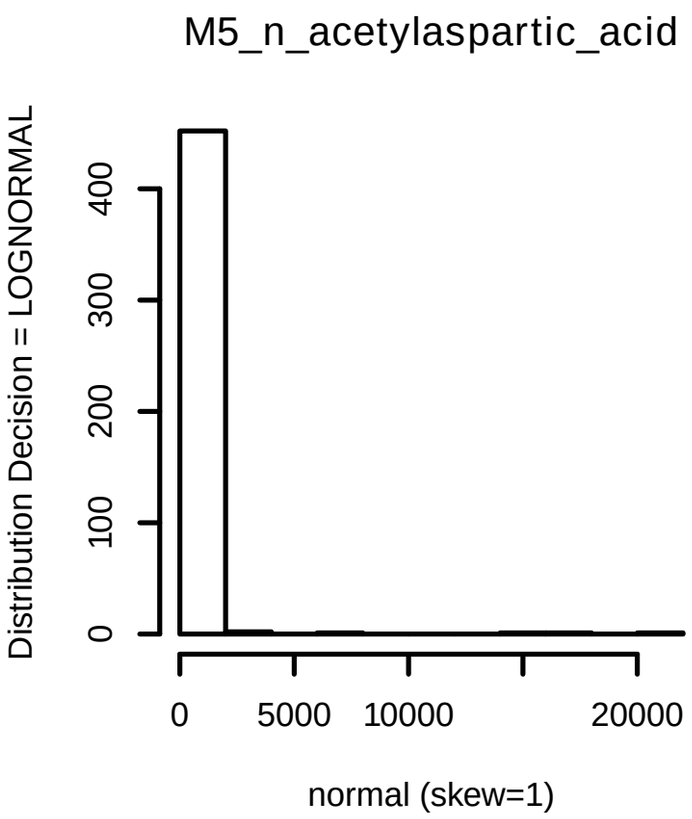

M5_beta_glycerolphosphate
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.31)

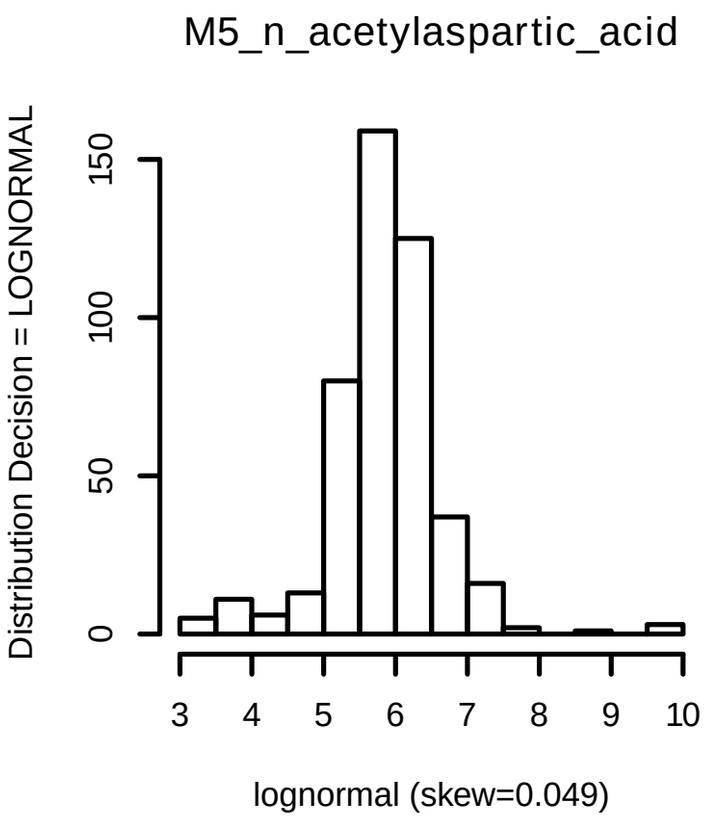

M5__hydroxybutyric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1000
1500
normal (skew=0.2)

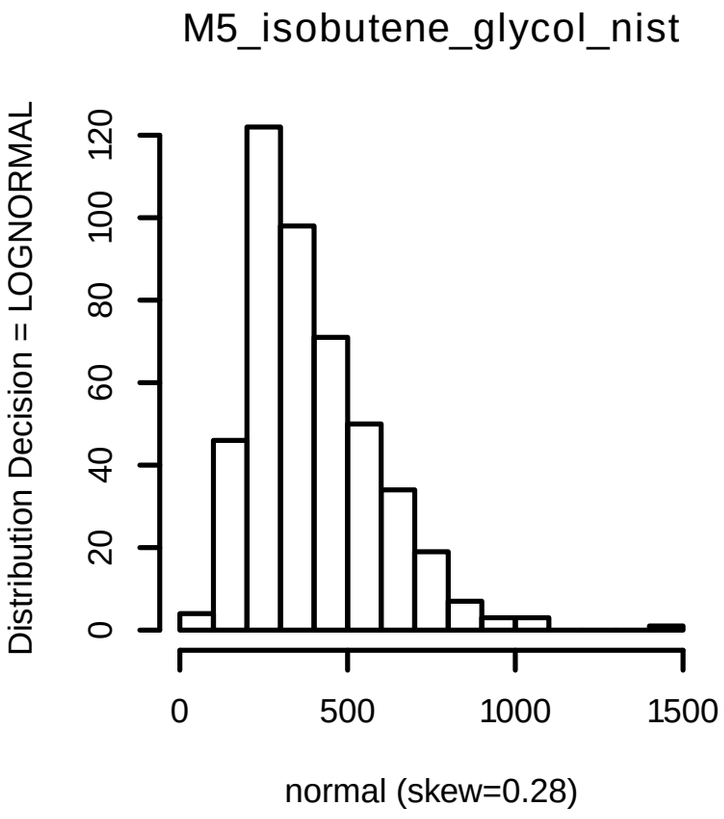

M5__hydroxybutyric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.14)

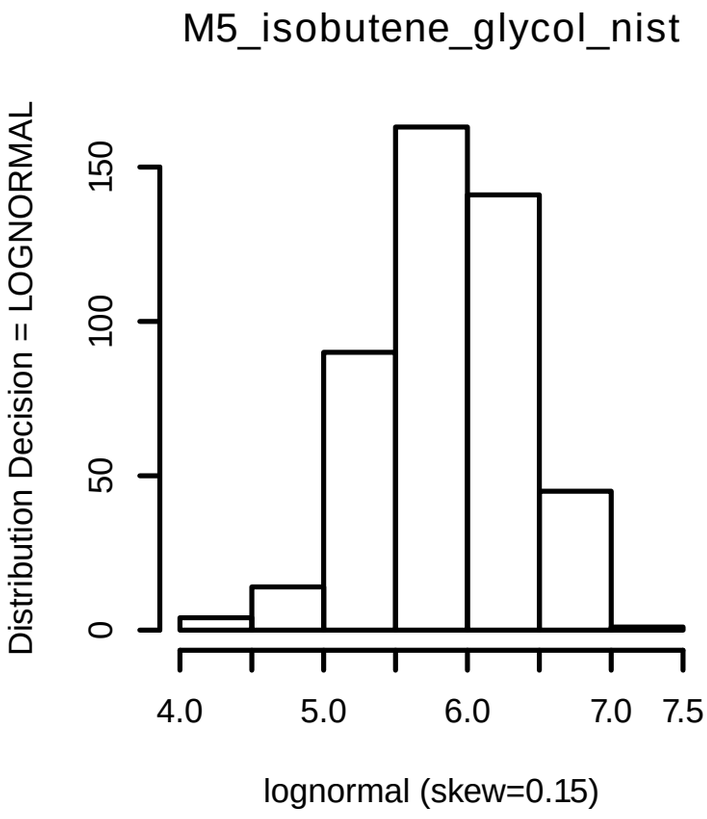

M5__phosphoglycerate
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
500
1500
2500
normal (skew=0.35)

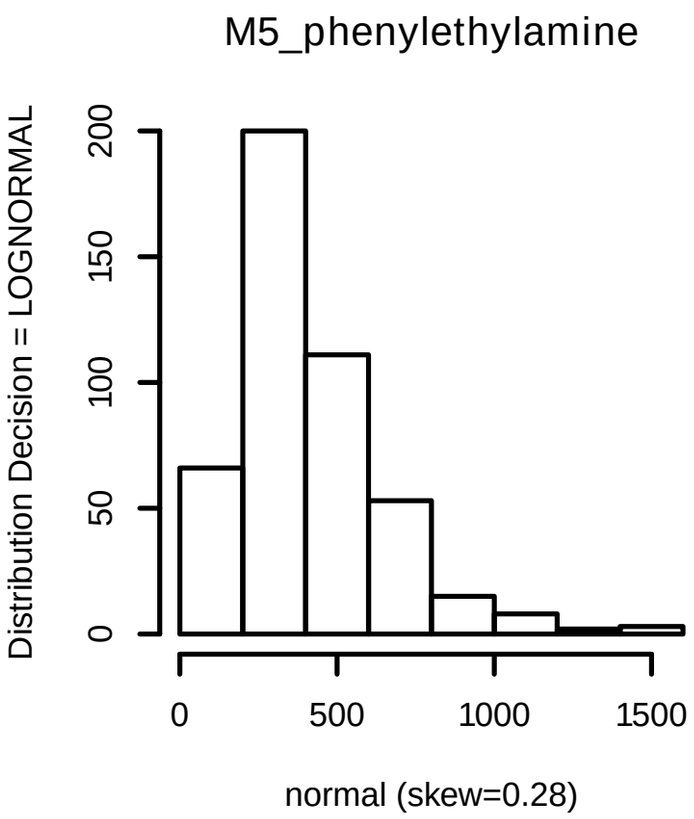

M5__phosphoglycerate
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.054)

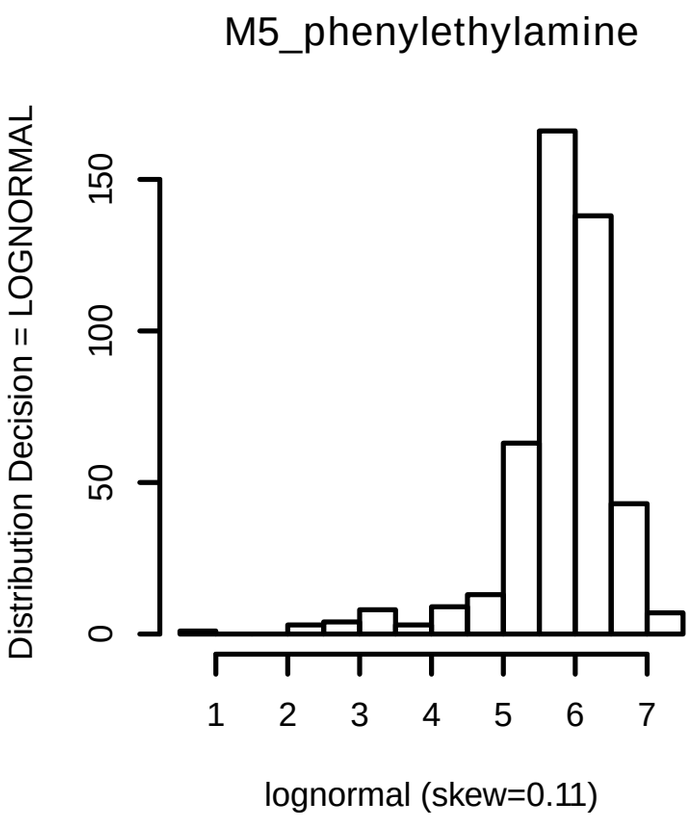

M5_n_acetylaspartic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
20000
normal (skew=1)

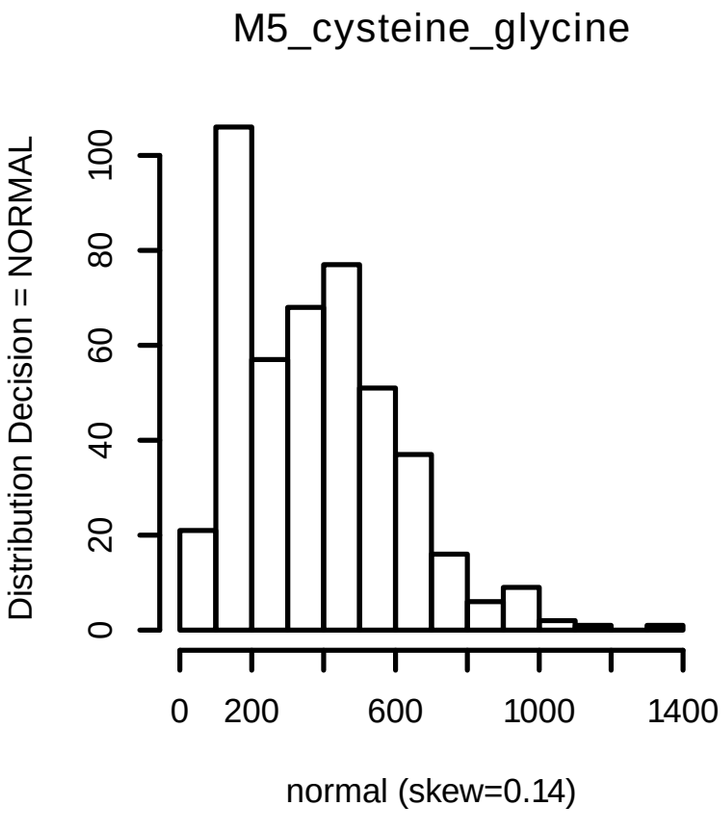

M5_n_acetylaspartic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
3
4
5
6
7
8
9
10
lognormal (skew=0.049)

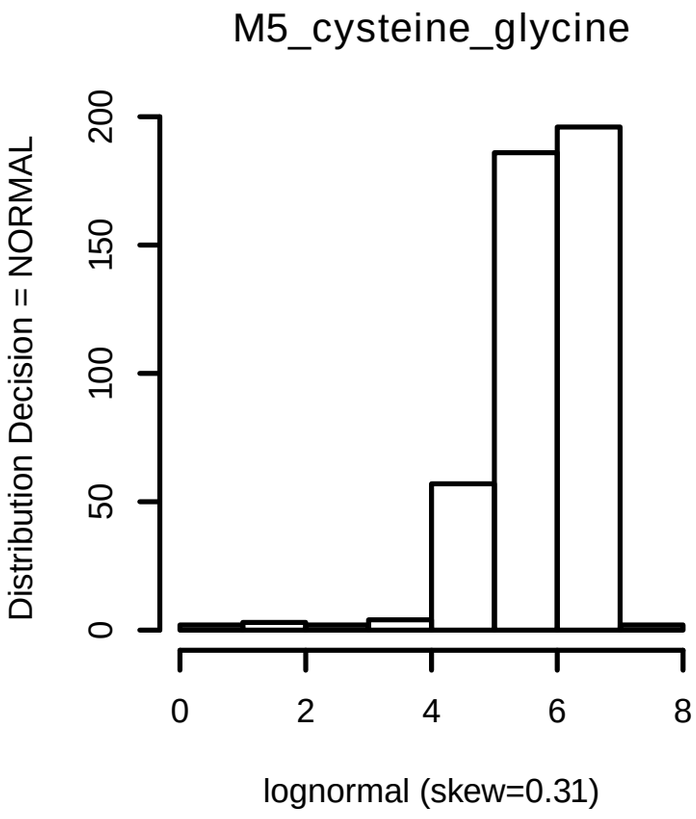

M5_isobutene_glycol_nist
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
500
1000
1500
normal (skew=0.28)

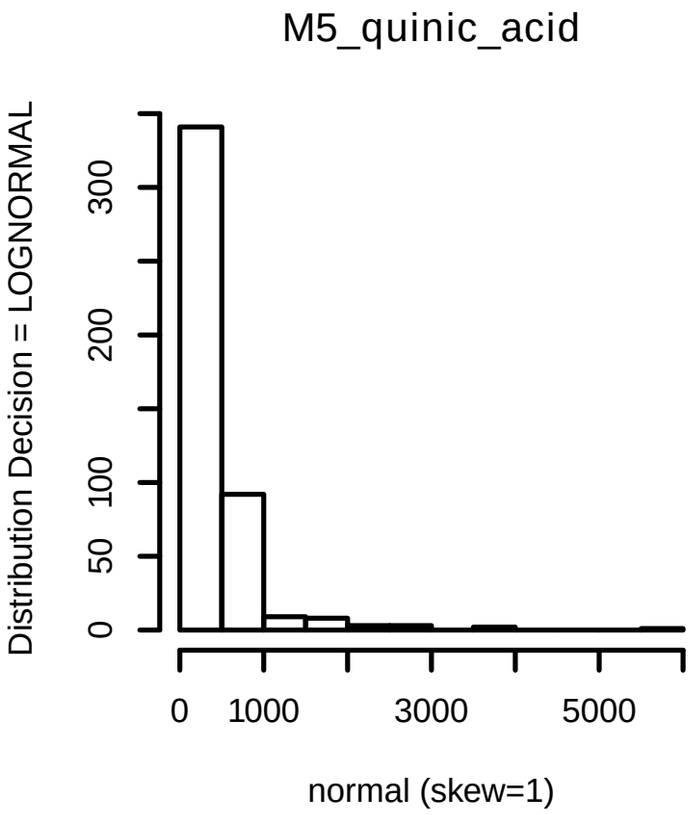

M5_isobutene_glycol_nist
Distribution Decision = LOGNORMAL
0
50
100
150
4.0
5.0
6.0
7.0
7.5
lognormal (skew=0.15)

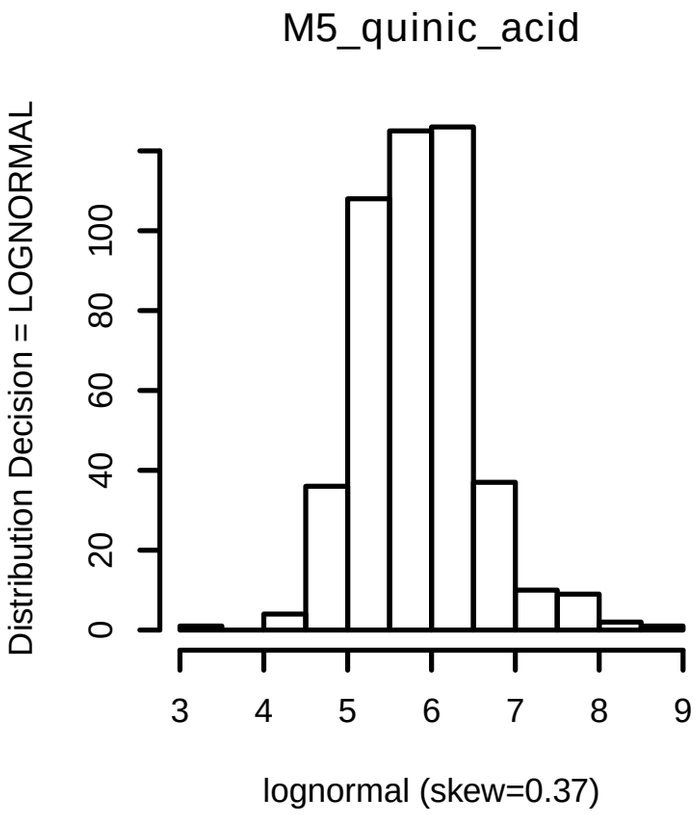

M5_phenylethylamine
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1000
1500
normal (skew=0.28)

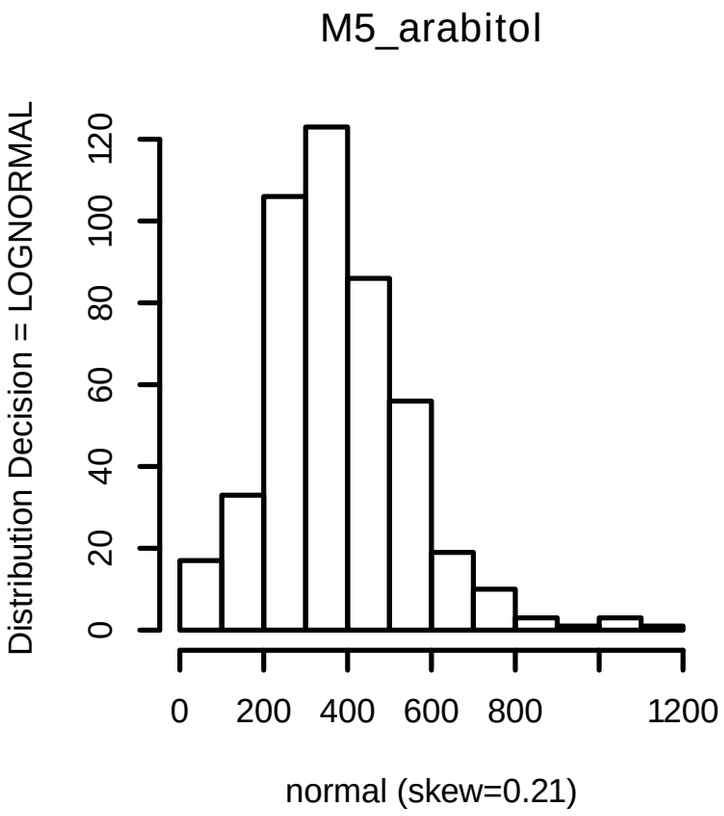

M5_phenylethylamine
Distribution Decision = LOGNORMAL
0
50
100
150
1
2
3
4
5
6
7
lognormal (skew=0.11)

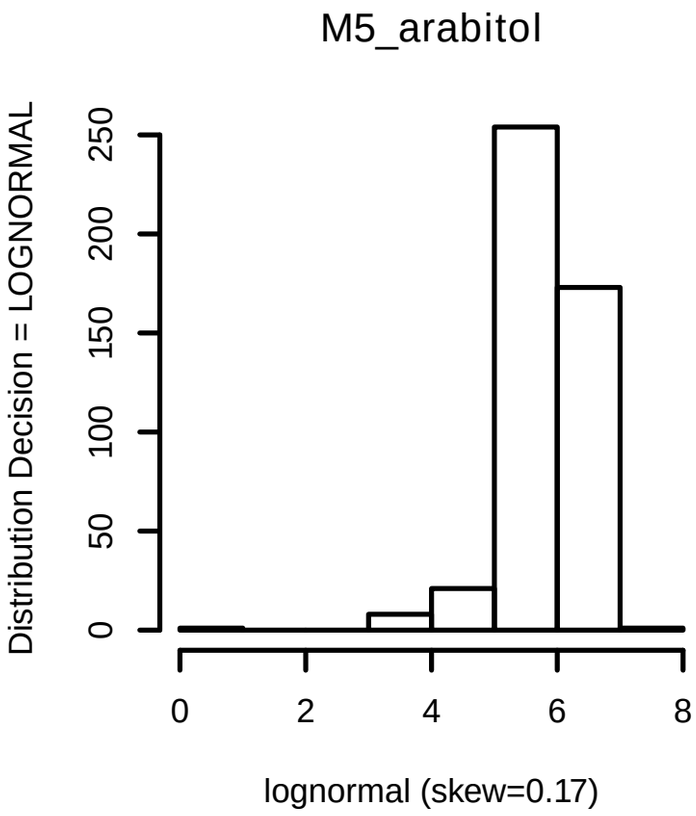

M5_cysteine_glycine
Distribution Decision = NORMAL
0
20
40
60
80
100
0
200
600
1000
1400
normal (skew=0.14)

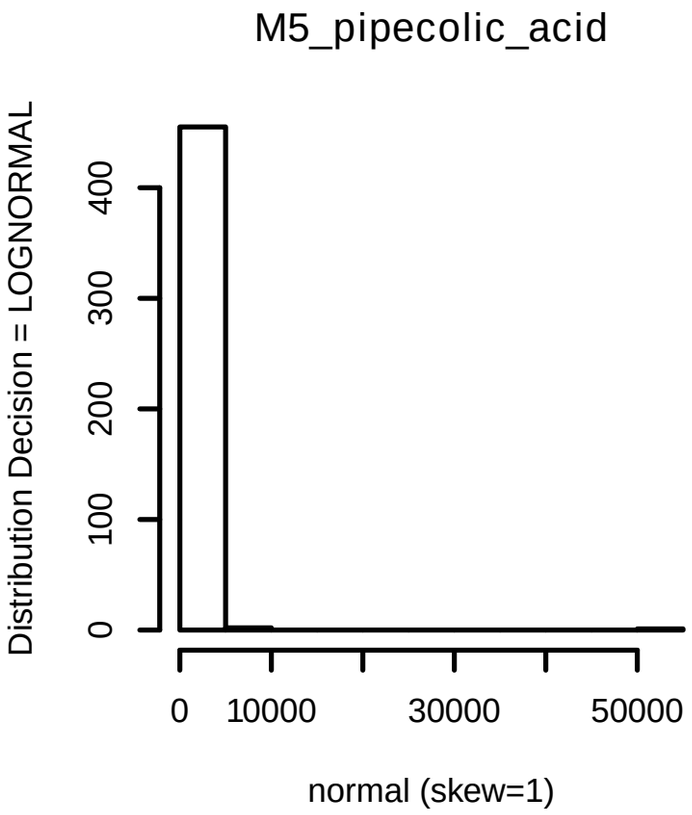

M5_cysteine_glycine
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.31)

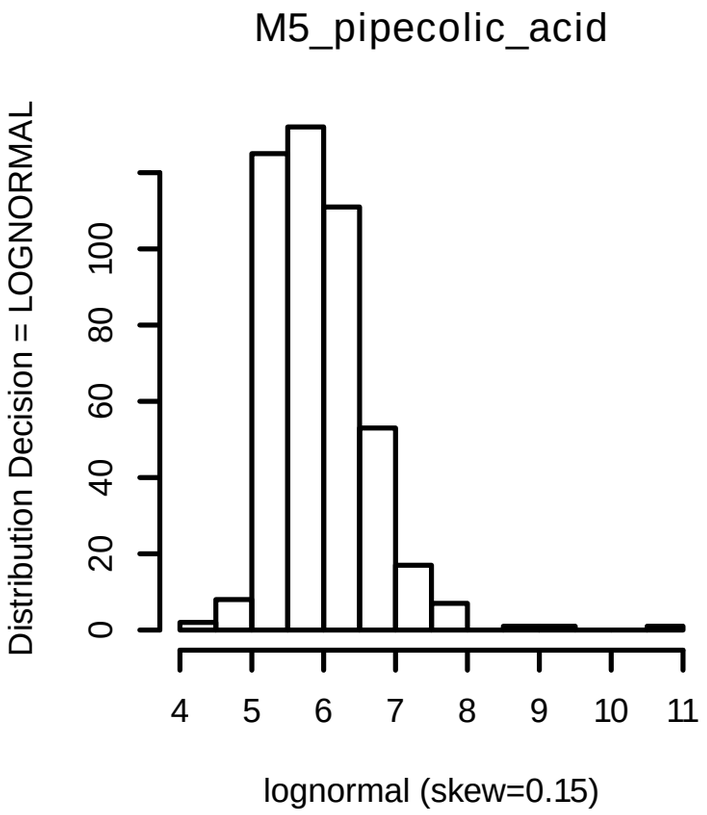

M5_quinic_acid
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
1000
3000
5000
normal (skew=1)

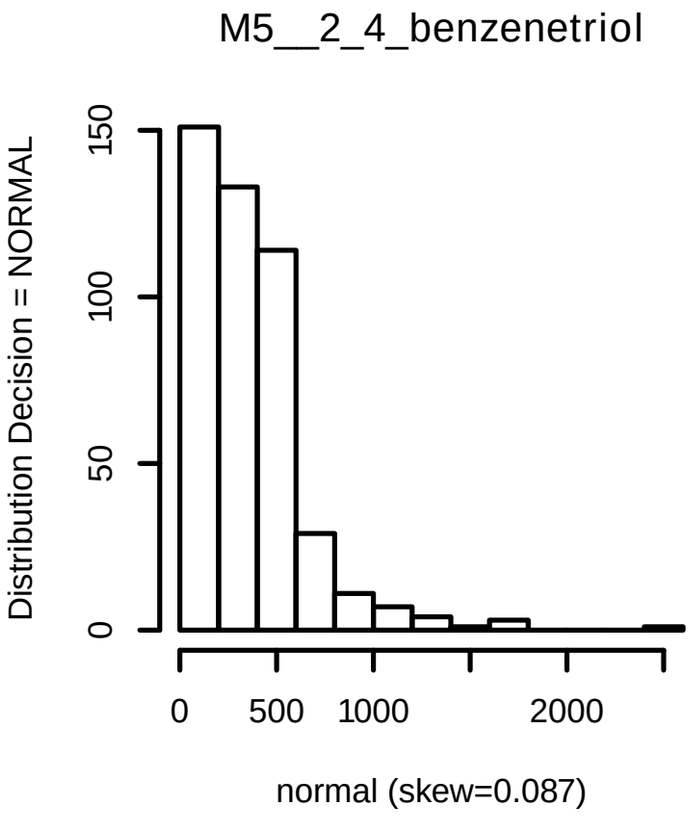

M5_quinic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
3
4
5
6
7
8
9
lognormal (skew=0.37)

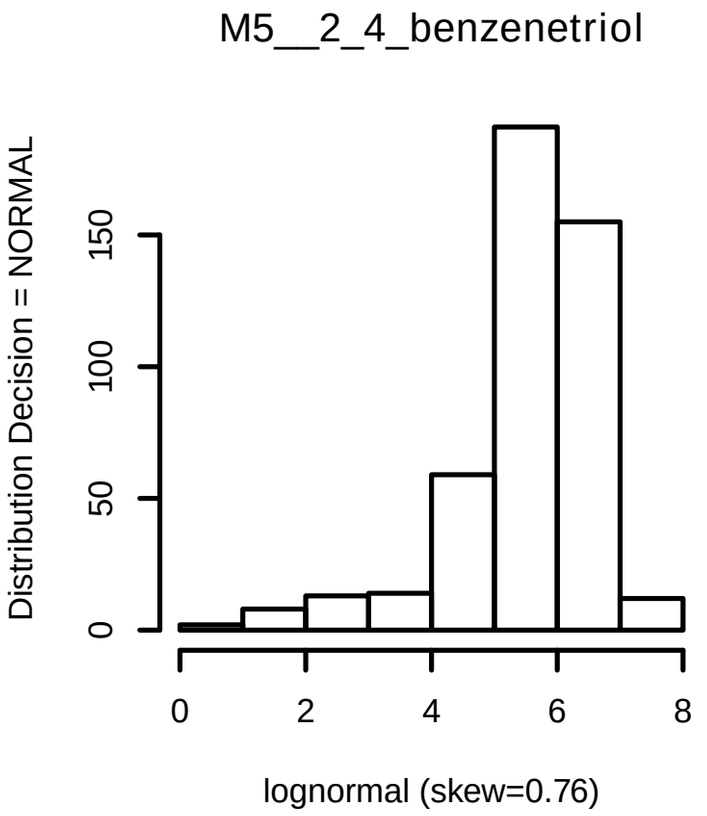

M5_arabitol
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
200
400
600
800
1200
normal (skew=0.21)

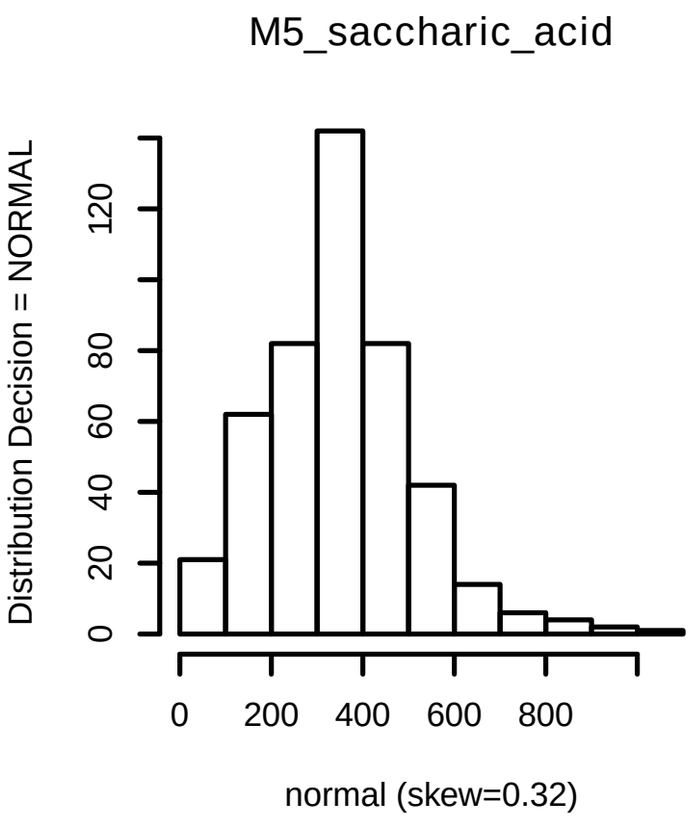

M5_arabitol
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.17)

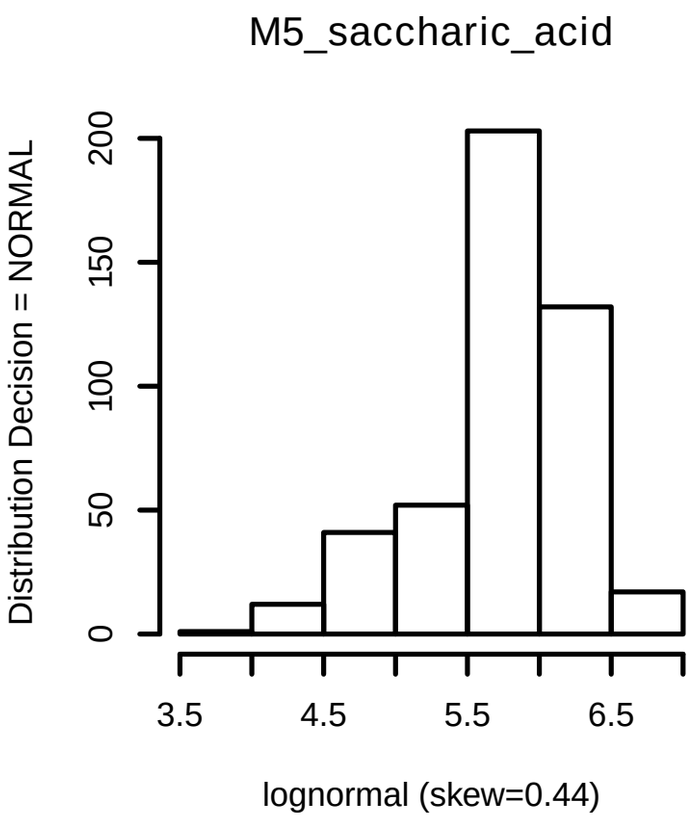

M5_pipecolic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
30000
50000
normal (skew=1)

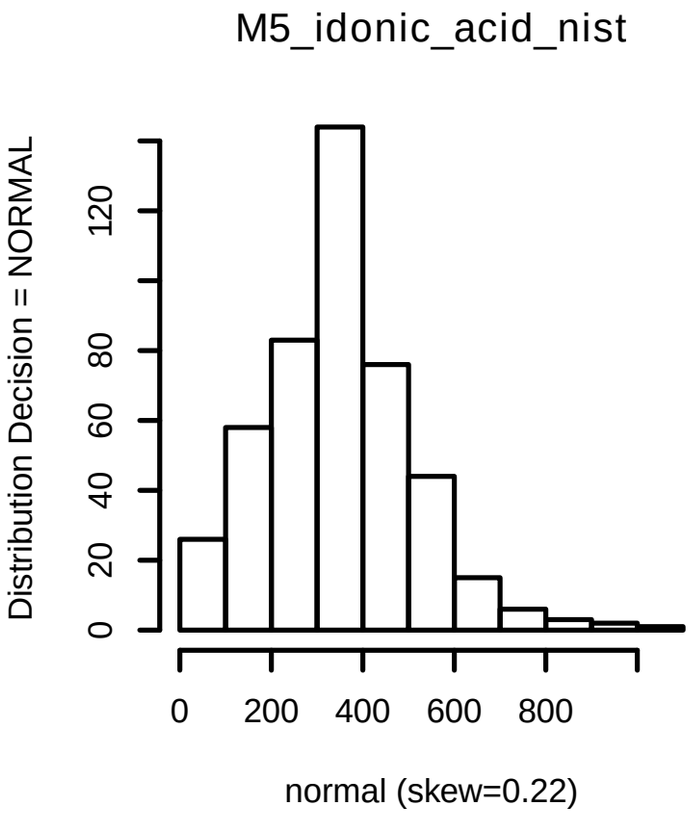

M5_pipecolic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
9
10
11
lognormal (skew=0.15)

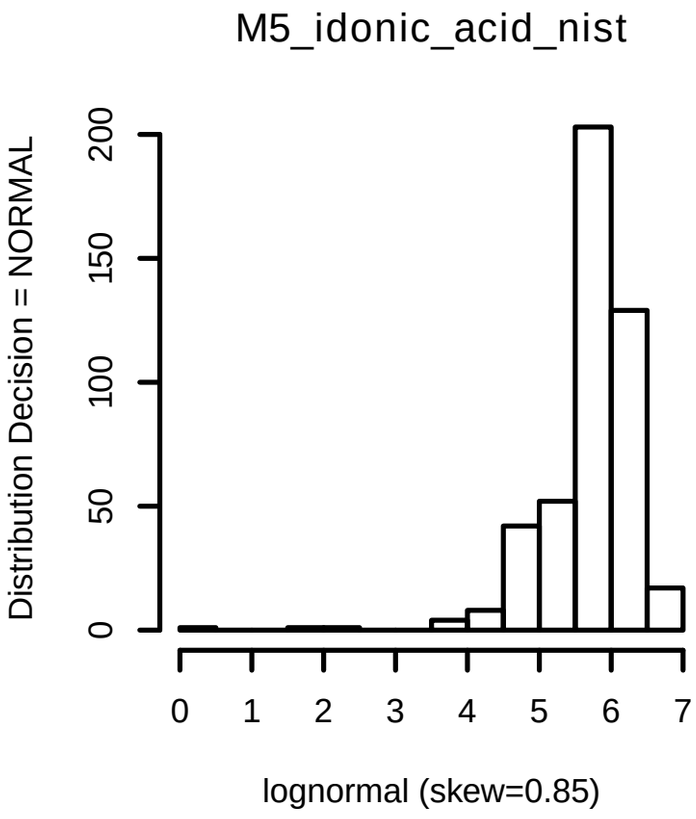

M5__2_4_benzenetriol
Distribution Decision = NORMAL
0
50
100
150
0
500
1000
2000
normal (skew=0.087)

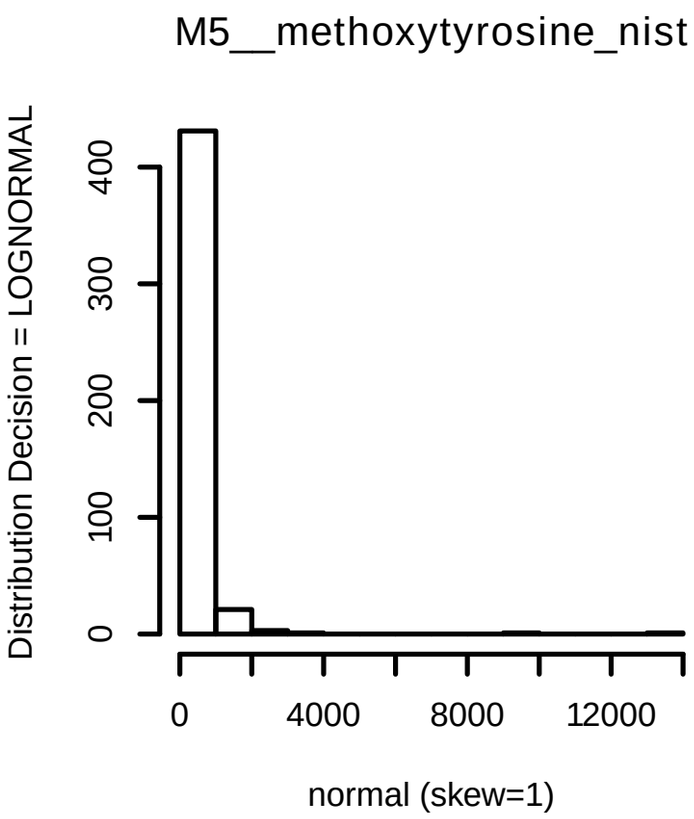

M5__2_4_benzenetriol
Distribution Decision = NORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=0.76)

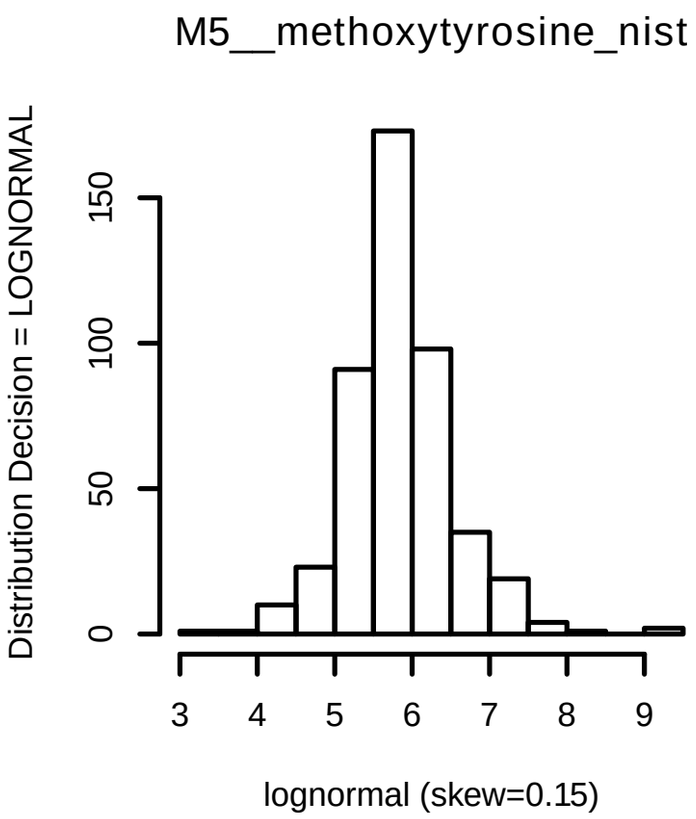

M5_saccharic_acid
Distribution Decision = NORMAL
0
20
40
60
80
120
0
200
400
600
800
normal (skew=0.32)

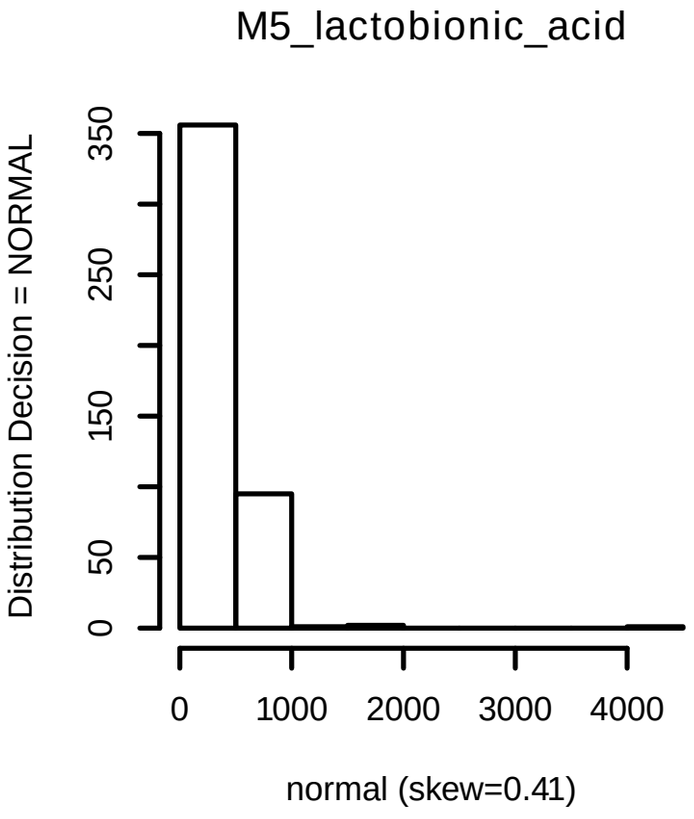

M5_saccharic_acid
Distribution Decision = NORMAL
0
50
100
150
200
3.5
4.5
5.5
6.5
lognormal (skew=0.44)

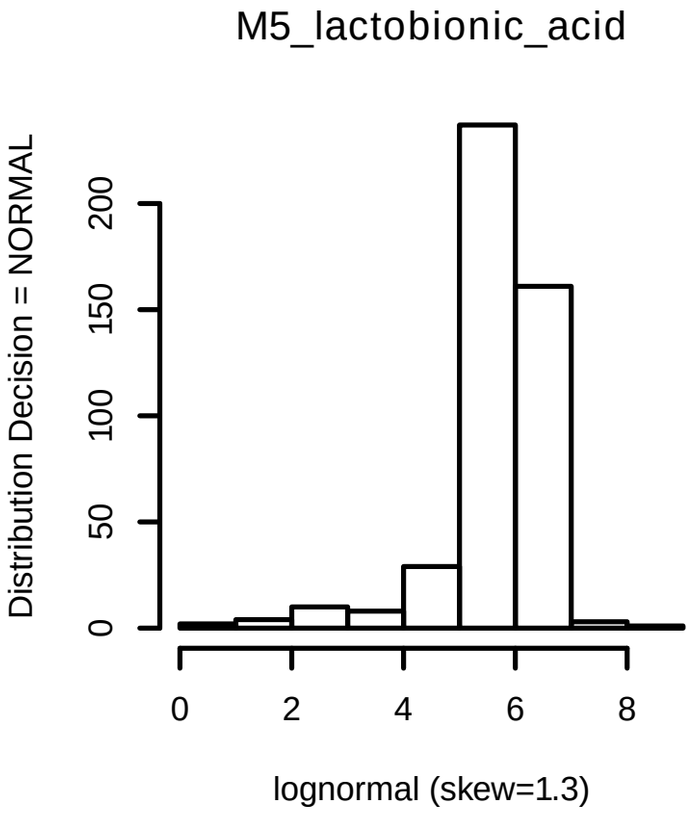

M5_idonic_acid_nist
Distribution Decision = NORMAL
0
20
40
60
80
120
0
200
400
600
800
normal (skew=0.22)

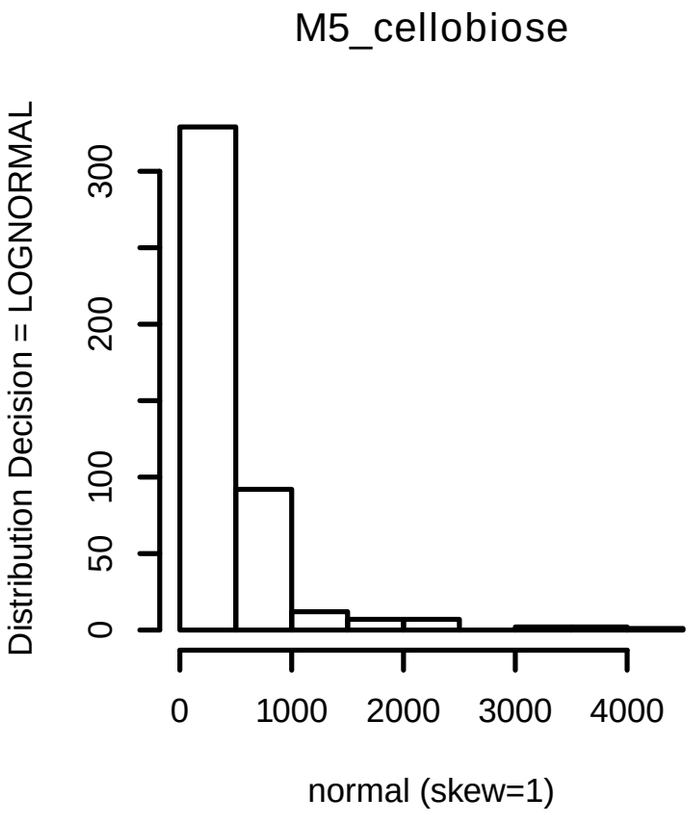

M5_idonic_acid_nist
Distribution Decision = NORMAL
0
50
100
150
200
0
1
2
3
4
5
6
7
lognormal (skew=0.85)

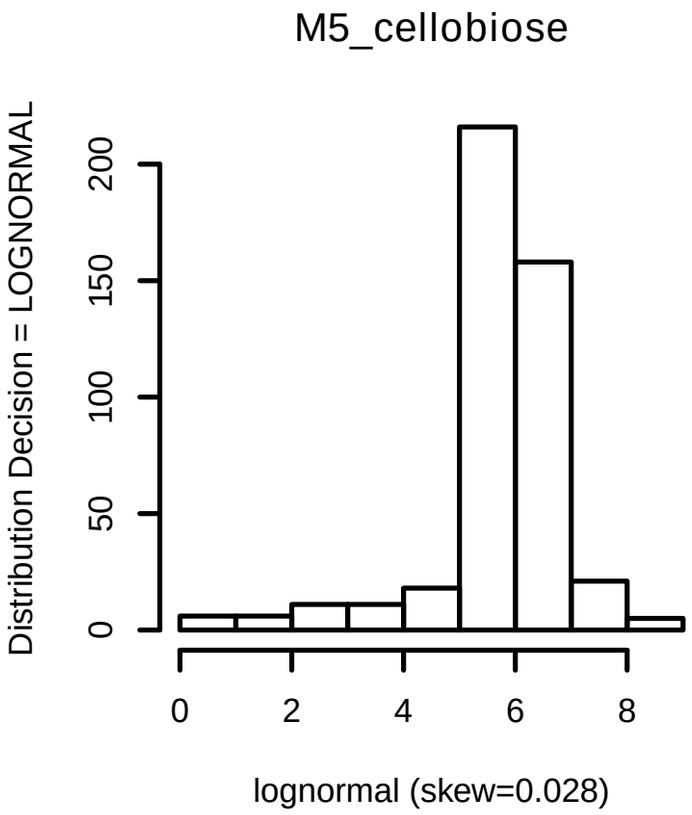

M5__methoxytyrosine_nist
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
4000
8000
12000
normal (skew=1)

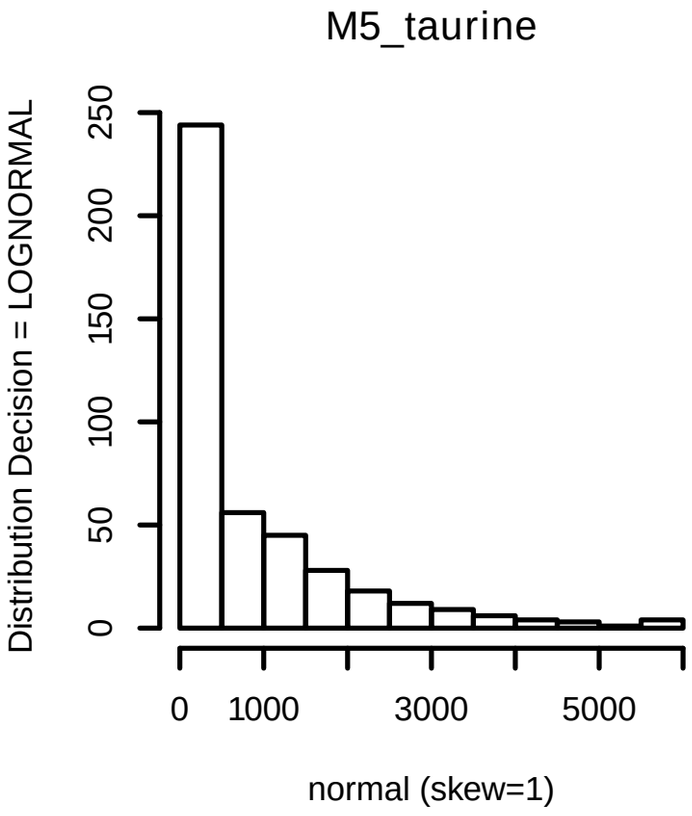

M5__methoxytyrosine_nist
Distribution Decision = LOGNORMAL
0
50
100
150
3
4
5
6
7
8
9
lognormal (skew=0.15)

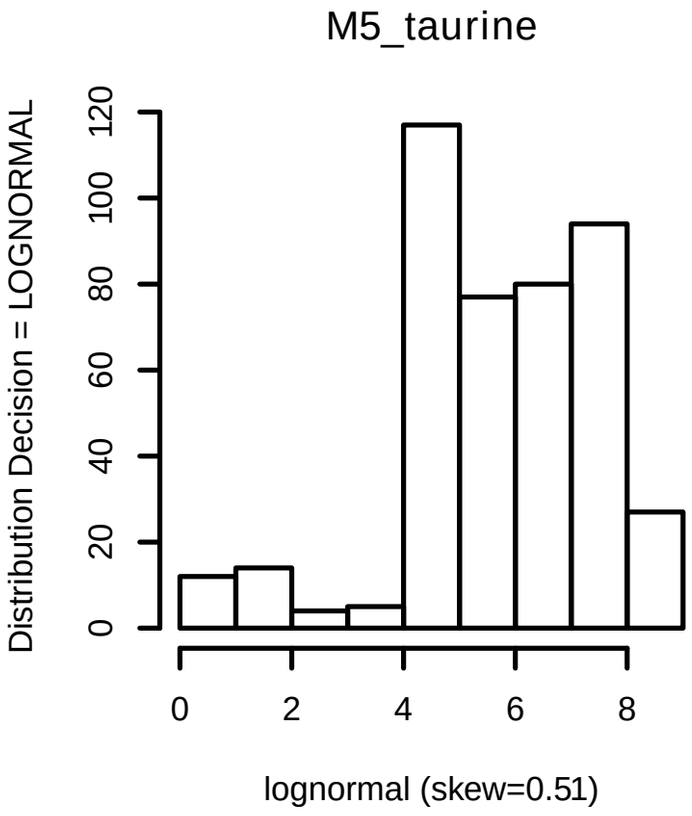

M5_lactobionic_acid
Distribution Decision = NORMAL
0
50
150
250
350
0
1000
2000
3000
4000
normal (skew=0.41)

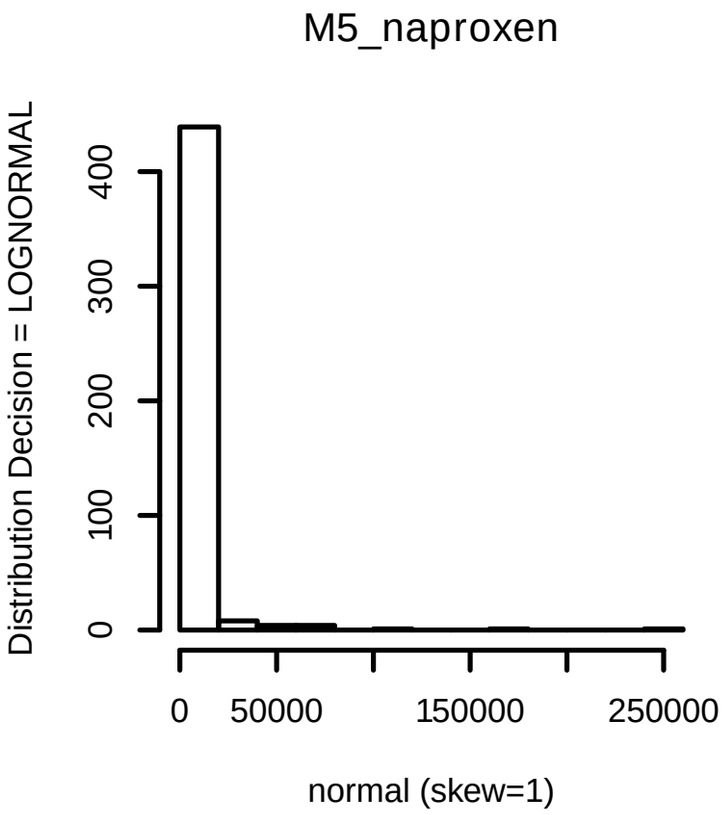

M5_lactobionic_acid
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=1.3)

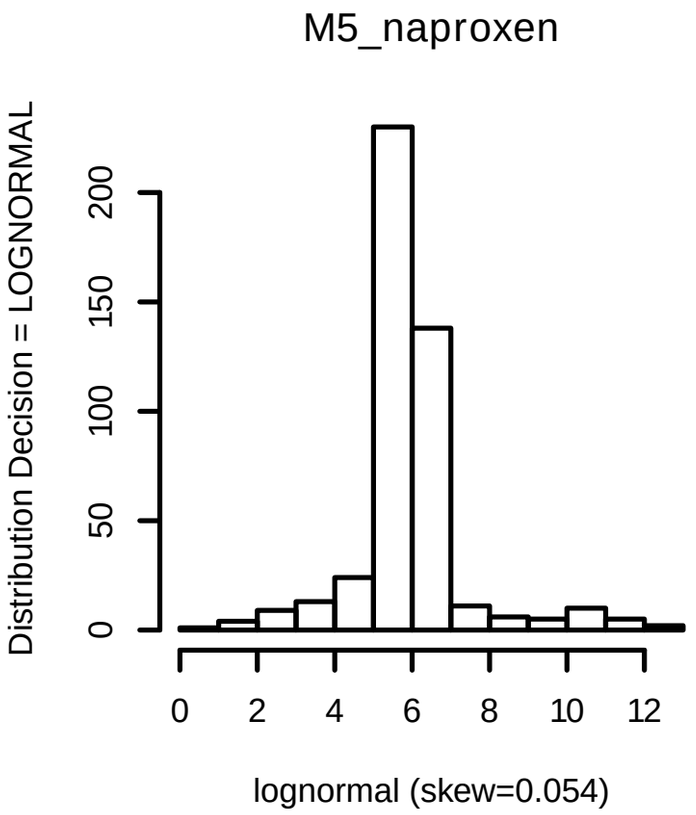

M5_cellobiose
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
1000
2000
3000
4000
normal (skew=1)

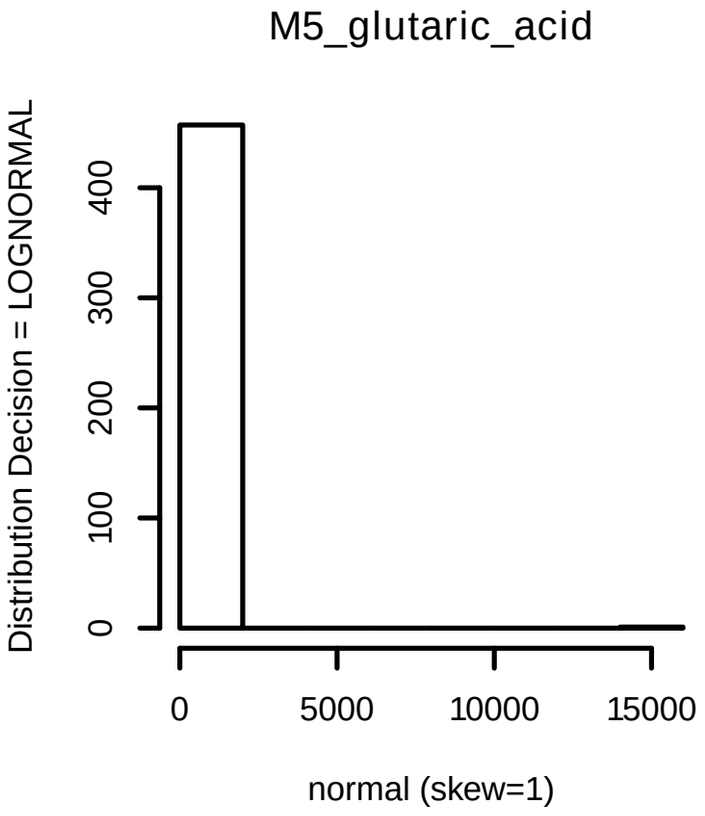

M5_cellobiose
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.028)

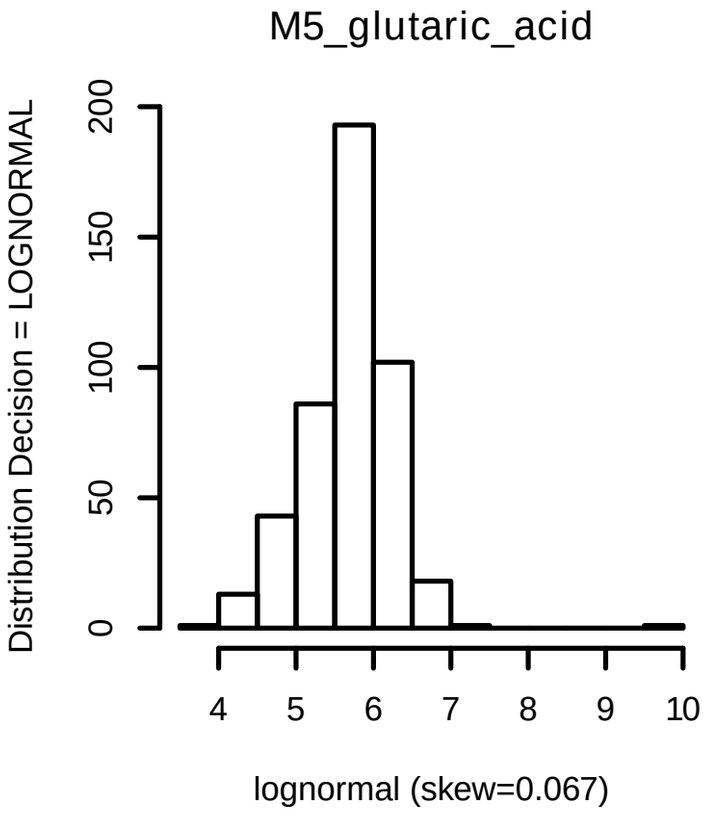

M5_taurine
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
3000
5000
normal (skew=1)

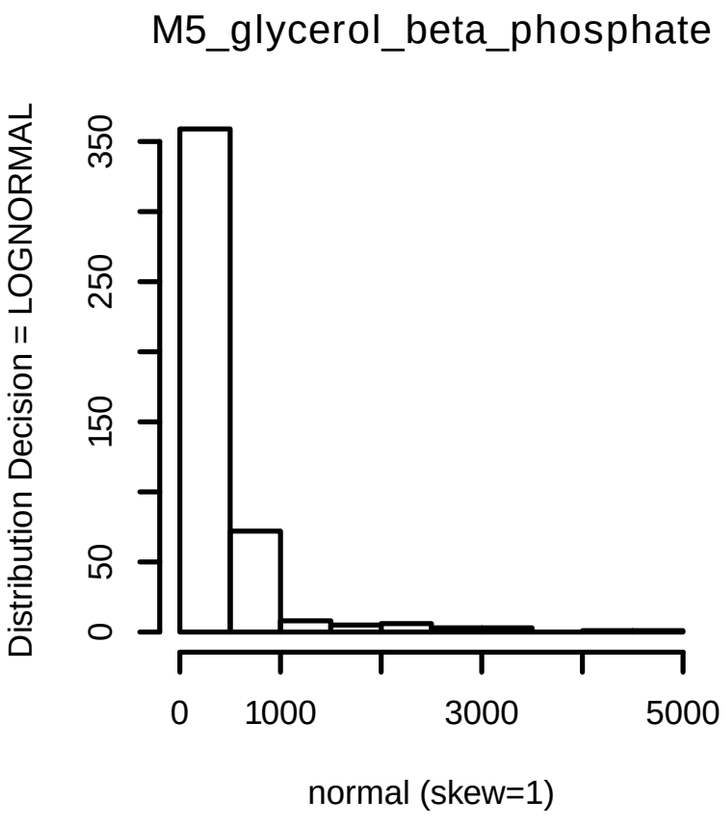

M5_taurine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
2
4
6
8
lognormal (skew=0.51)

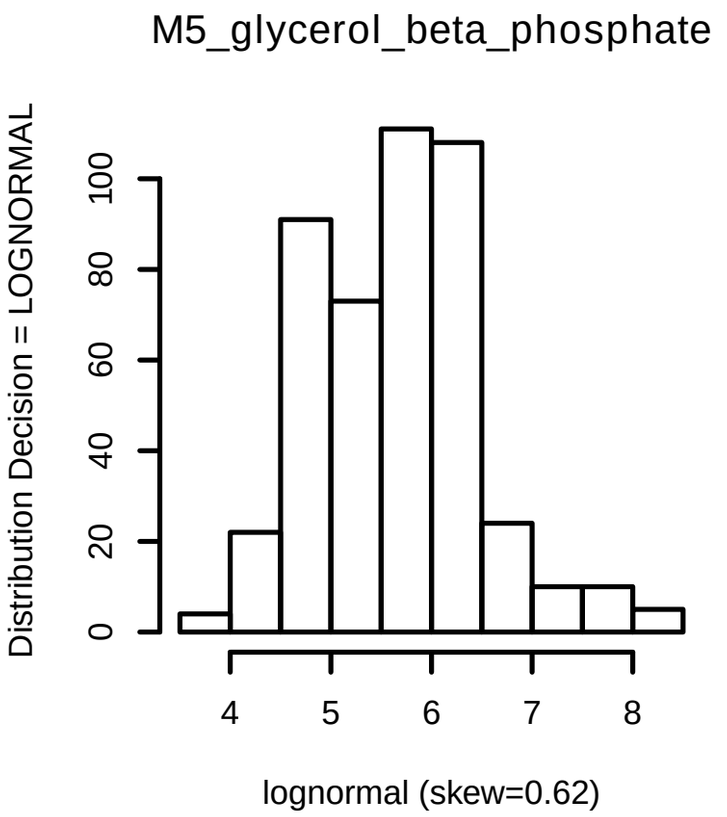

M5_naproxen
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
50000
150000
250000
normal (skew=1)

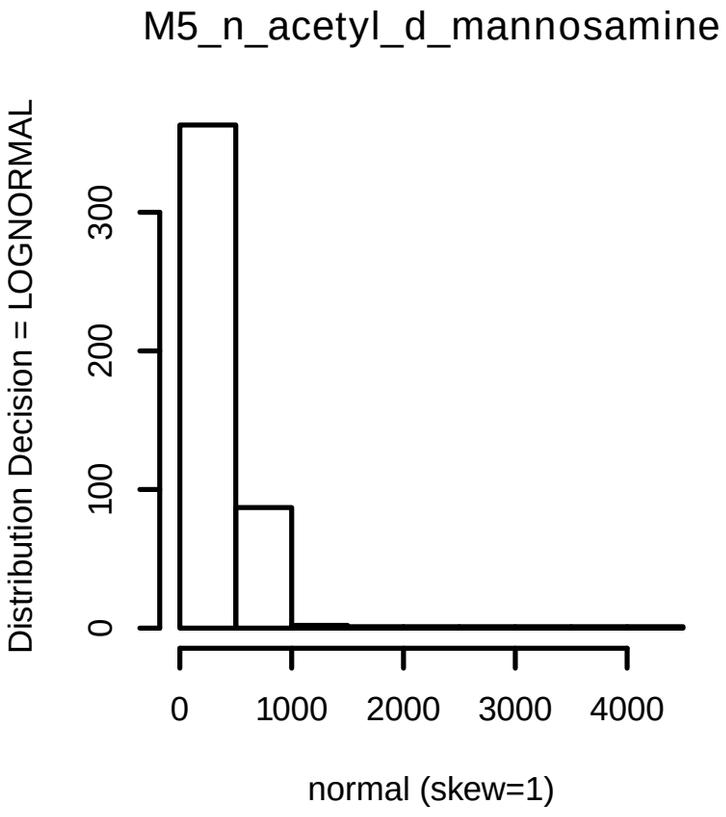

M5_naproxen
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
10
12
lognormal (skew=0.054)

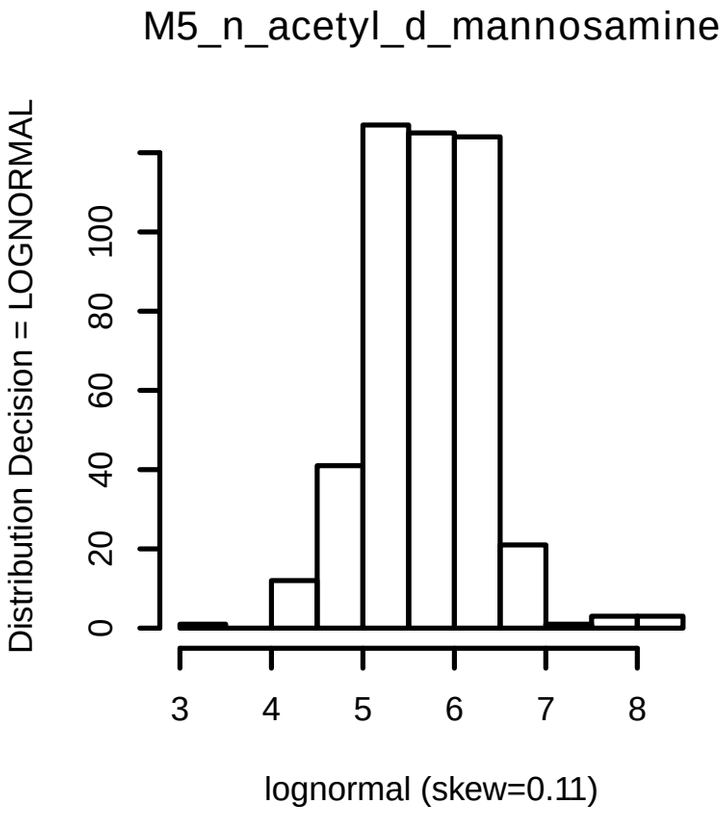

M5_glutaric_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
15000
normal (skew=1)

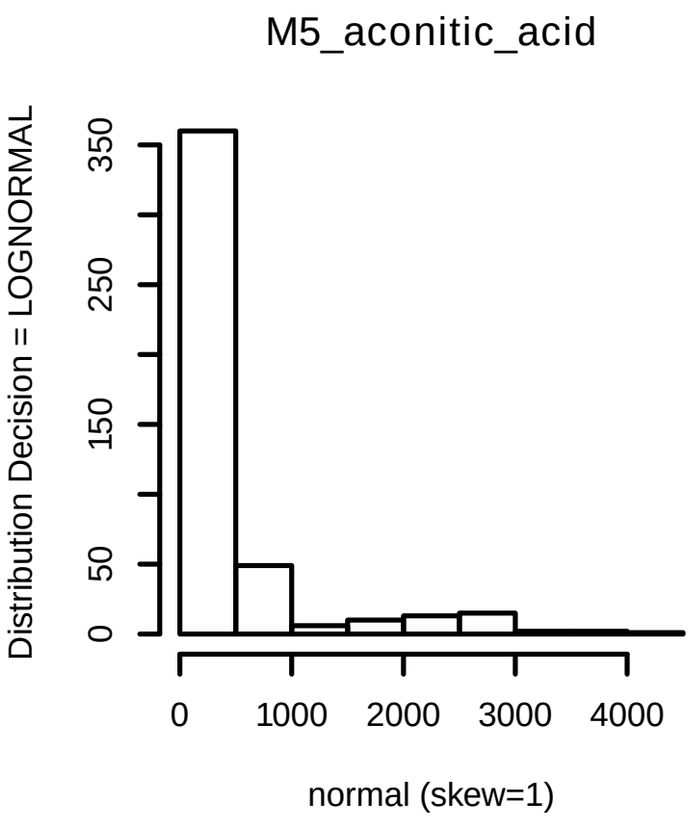

M5_glutaric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
4
5
6
7
8
9
10
lognormal (skew=0.067)

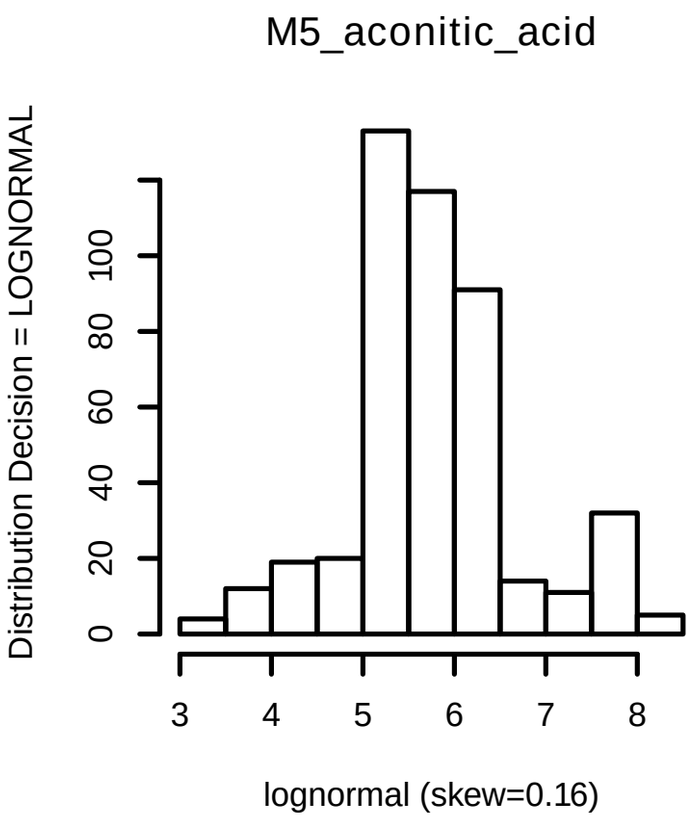

M5_glycerol_beta_phosphate
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
1000
3000
5000
normal (skew=1)

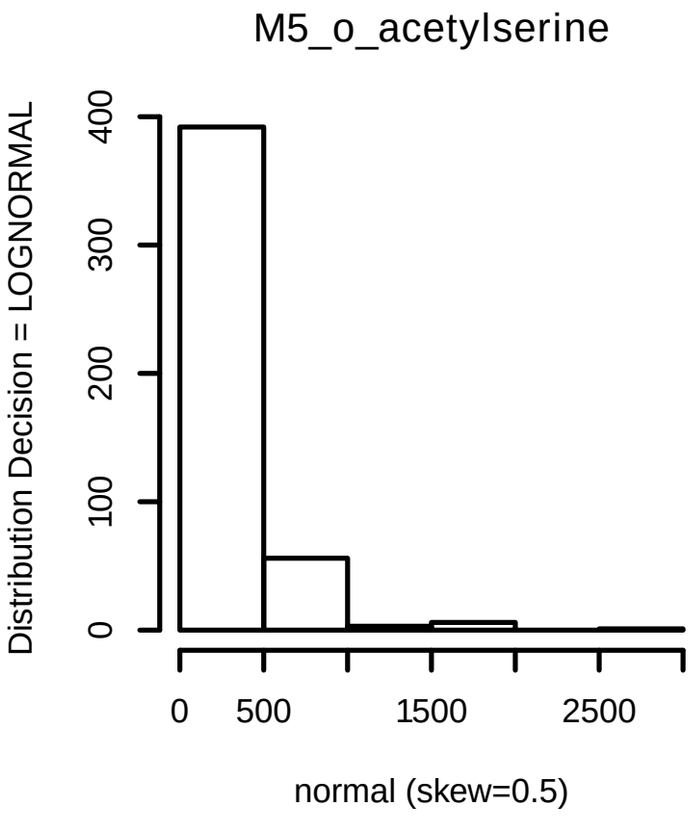

M5_glycerol_beta_phosphate
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
lognormal (skew=0.62)

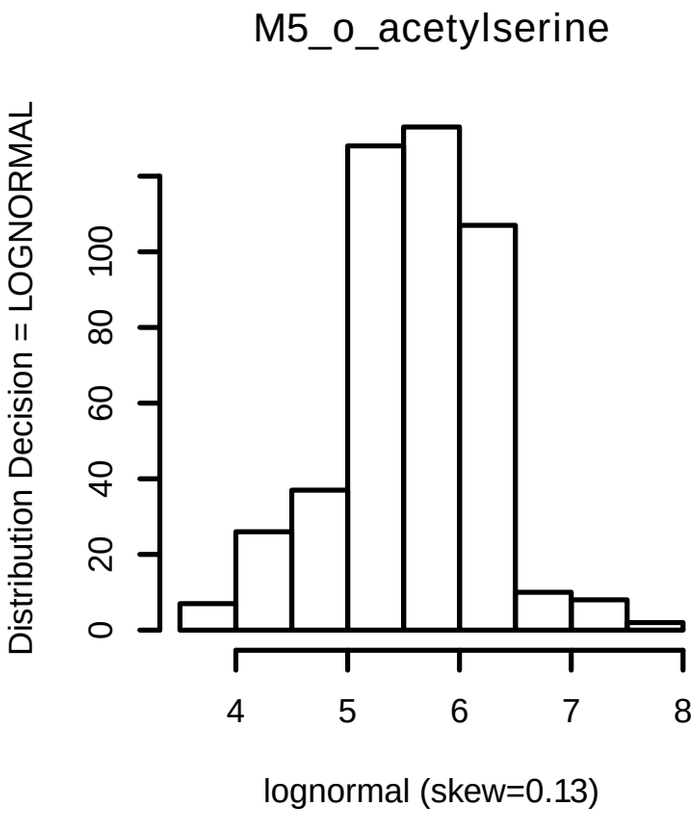

M5_n_acetyl_d_mannosamine
Distribution Decision = LOGNORMAL
0
100
200
300
0
1000
2000
3000
4000
normal (skew=1)

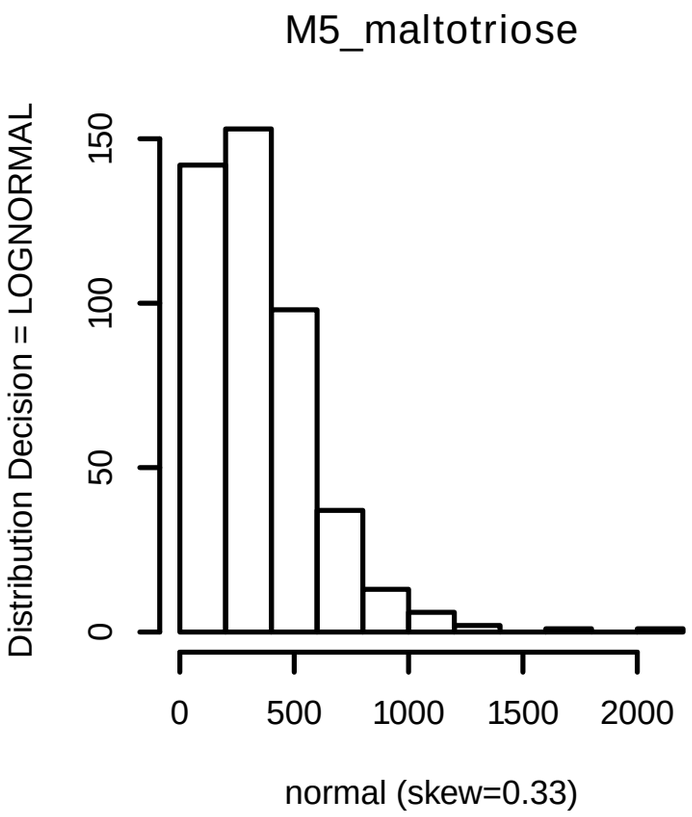

M5_n_acetyl_d_mannosamine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
3
4
5
6
7
8
lognormal (skew=0.11)

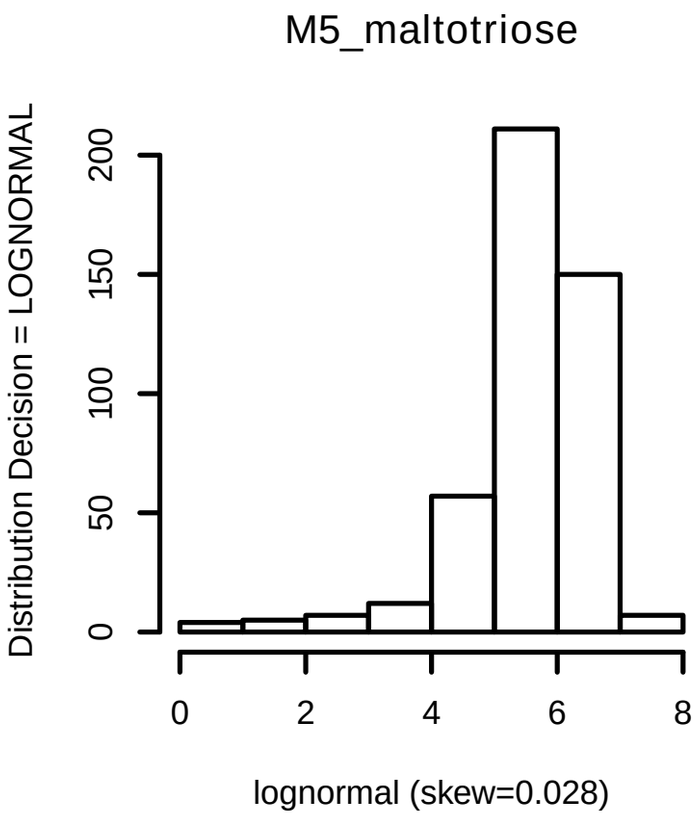

M5_aconitic_acid
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
1000
2000
3000
4000
normal (skew=1)

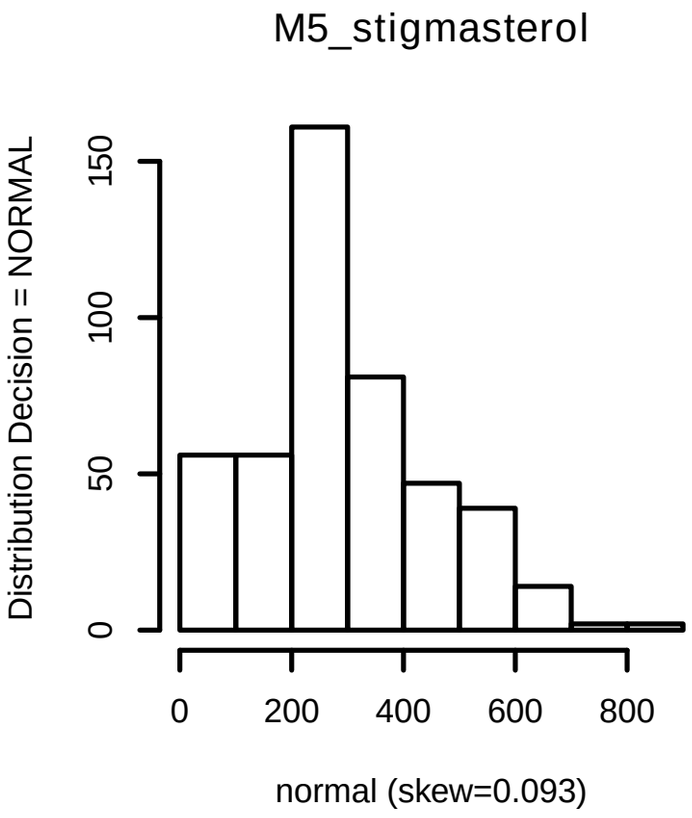

M5_aconitic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
3
4
5
6
7
8
lognormal (skew=0.16)

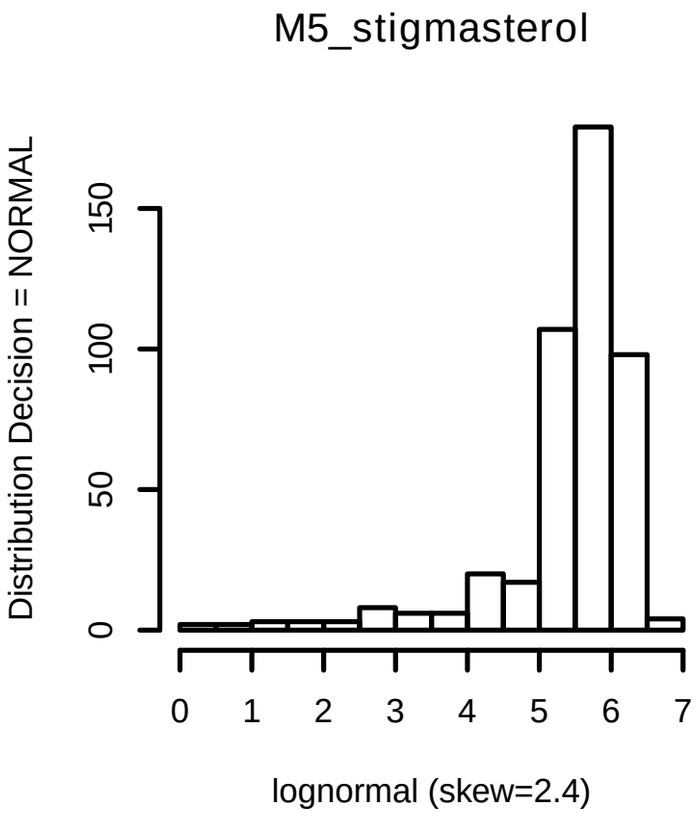

M5_o_acetylserine
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
500
1500
2500
normal (skew=0.5)

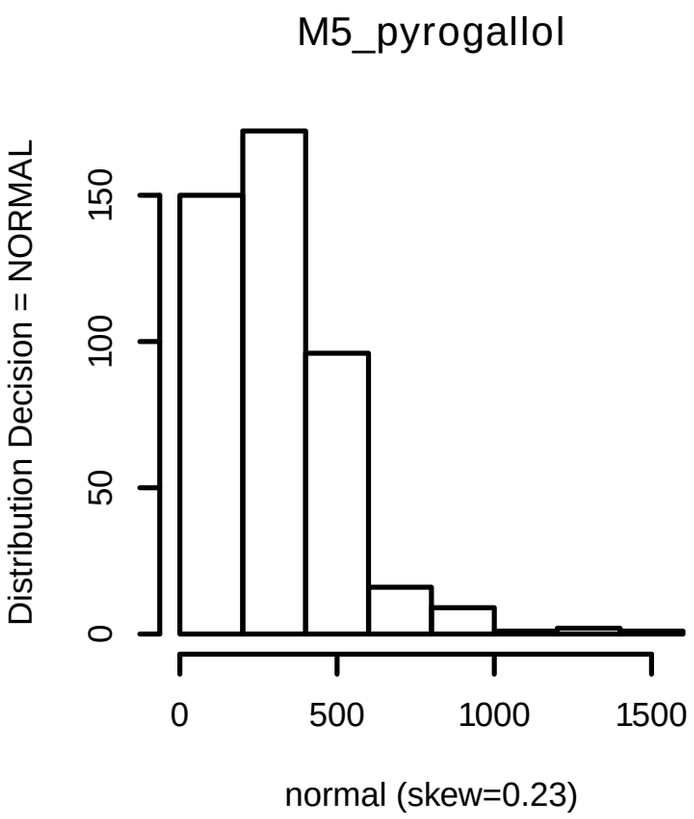

M5_o_acetylserine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
lognormal (skew=0.13)

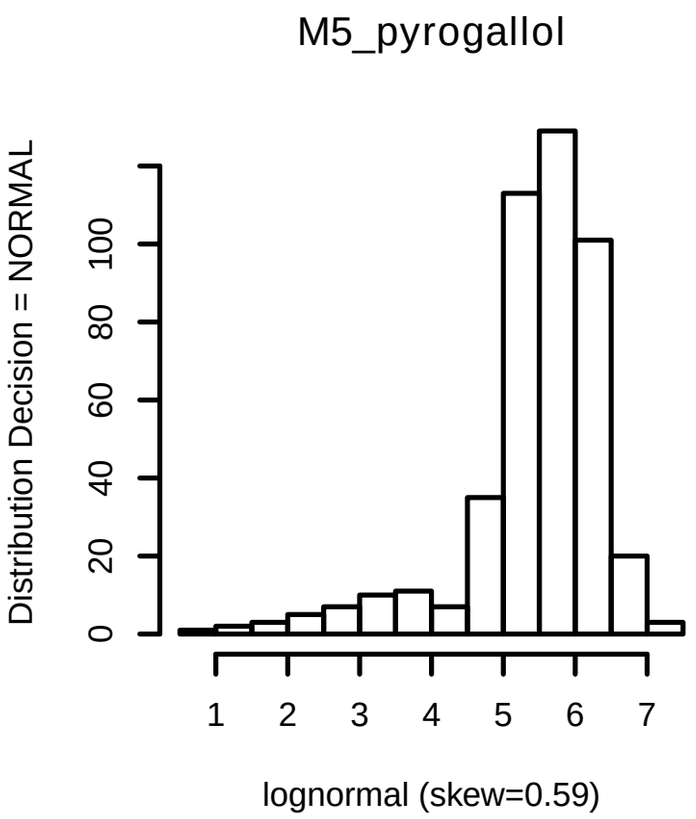

M5_maltotriose
Distribution Decision = LOGNORMAL
0
50
100
150
0
500
1000
1500
2000
normal (skew=0.33)

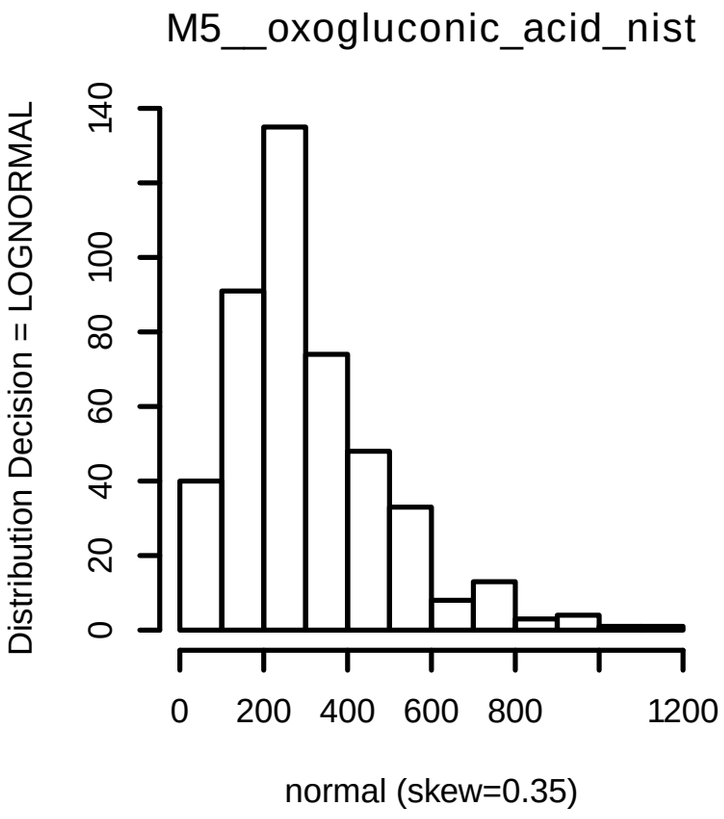

M5_maltotriose
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.028)

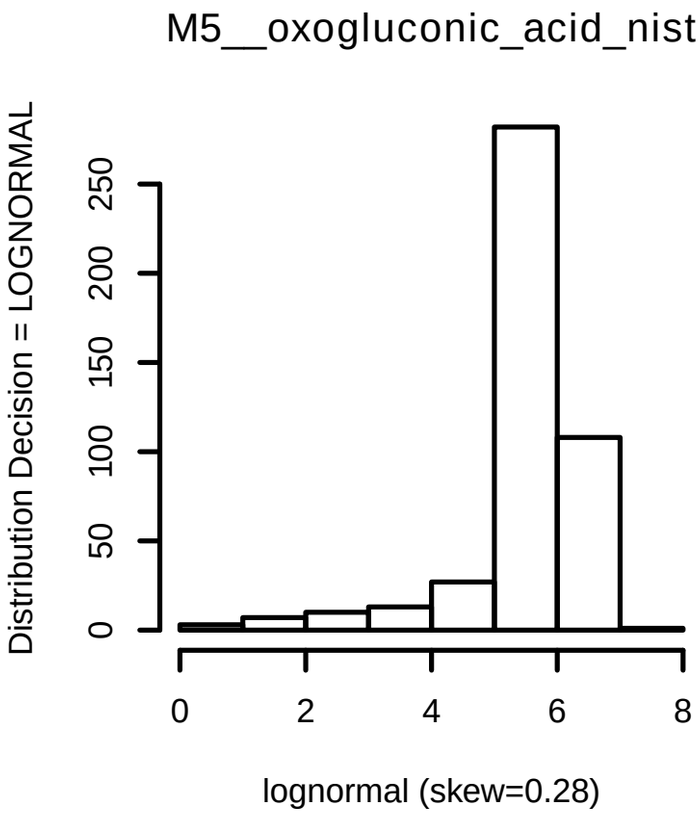

M5_stigmasterol
Distribution Decision = NORMAL
0
50
100
150
0
200
400
600
800
normal (skew=0.093)

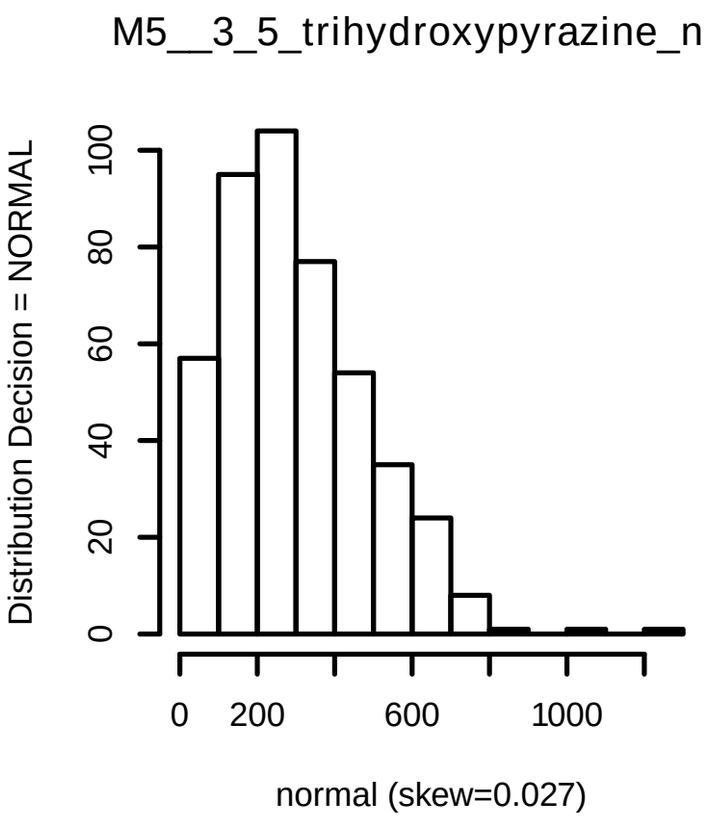

M5_stigmasterol
Distribution Decision = NORMAL
0
50
100
150
0
1
2
3
4
5
6
7
lognormal (skew=2.4)

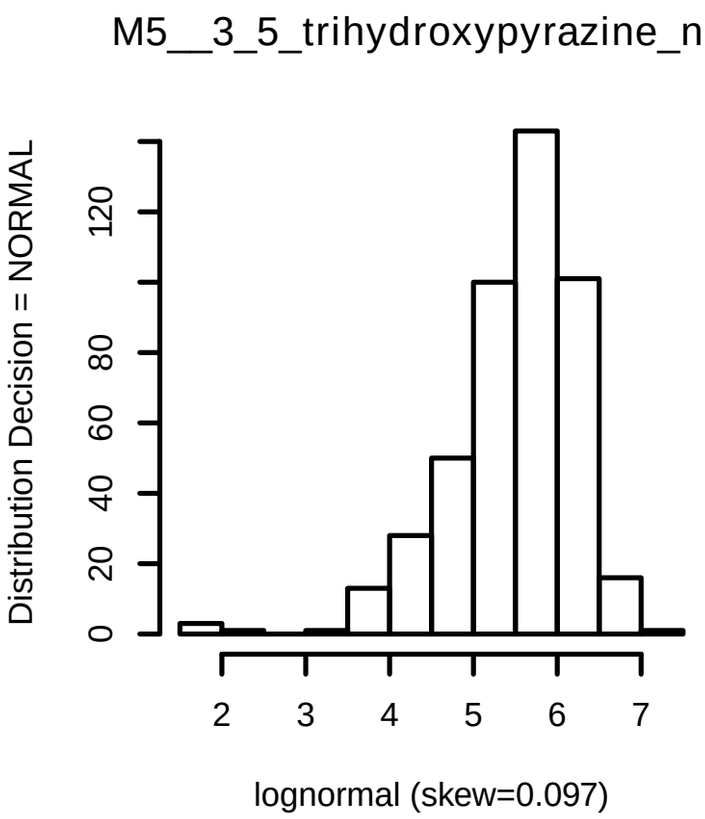

M5_pyrogallol
Distribution Decision = NORMAL
0
50
100
150
0
500
1000
1500
normal (skew=0.23)

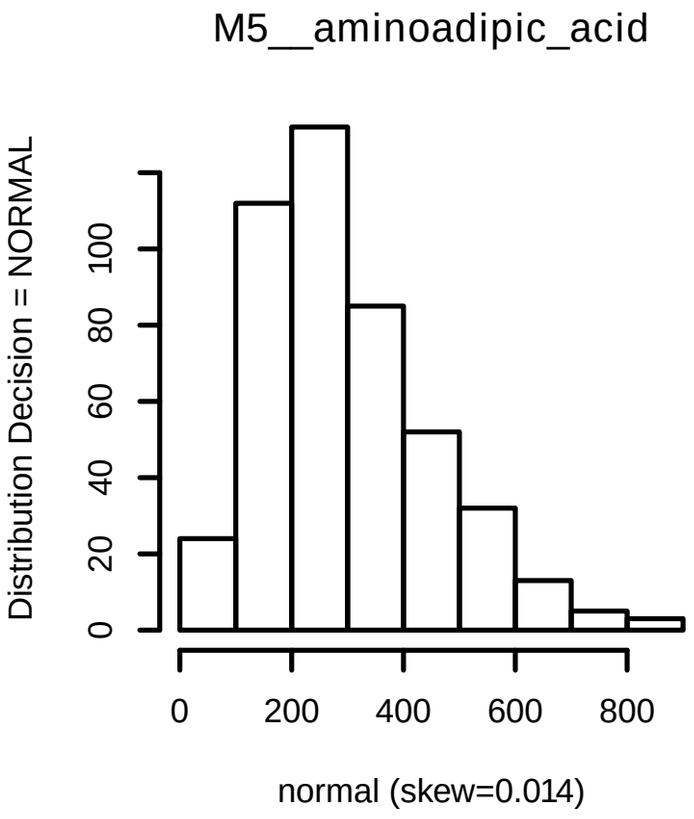

M5_pyrogallol
Distribution Decision = NORMAL
0
20
40
60
80
100
1
2
3
4
5
6
7
lognormal (skew=0.59)

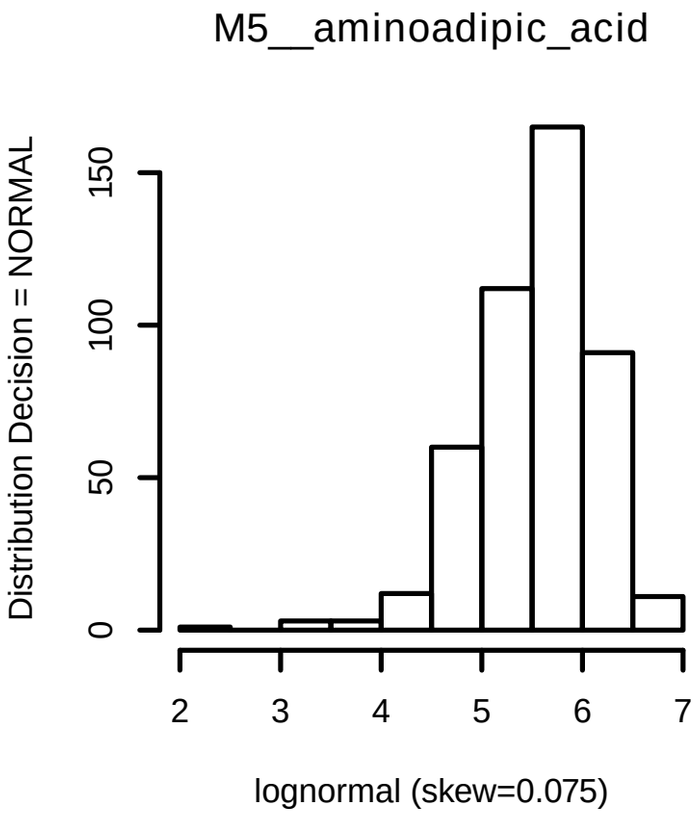

M5__oxogluconic_acid_nist
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
0
200
400
600
800
1200
normal (skew=0.35)

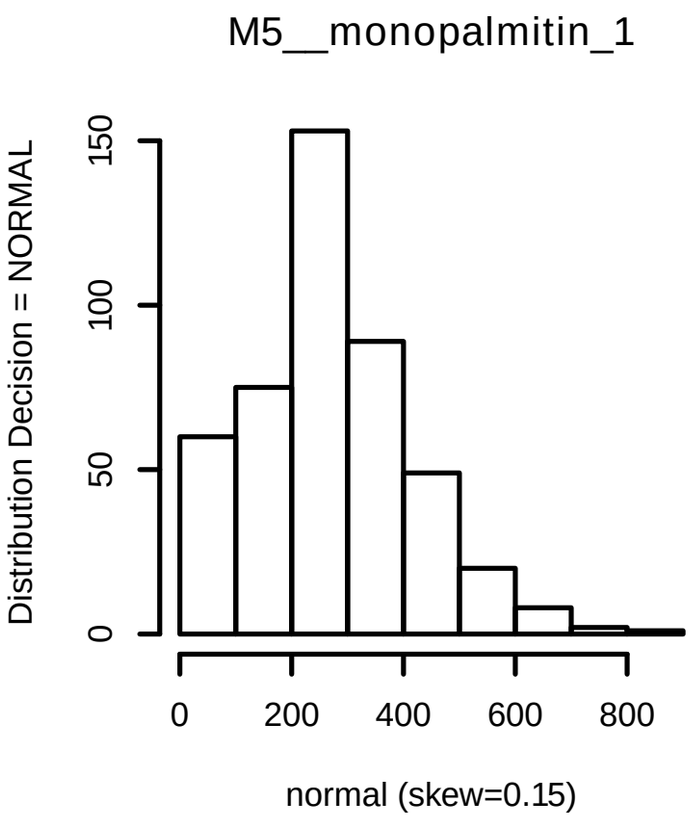

M5__oxogluconic_acid_nist
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.28)

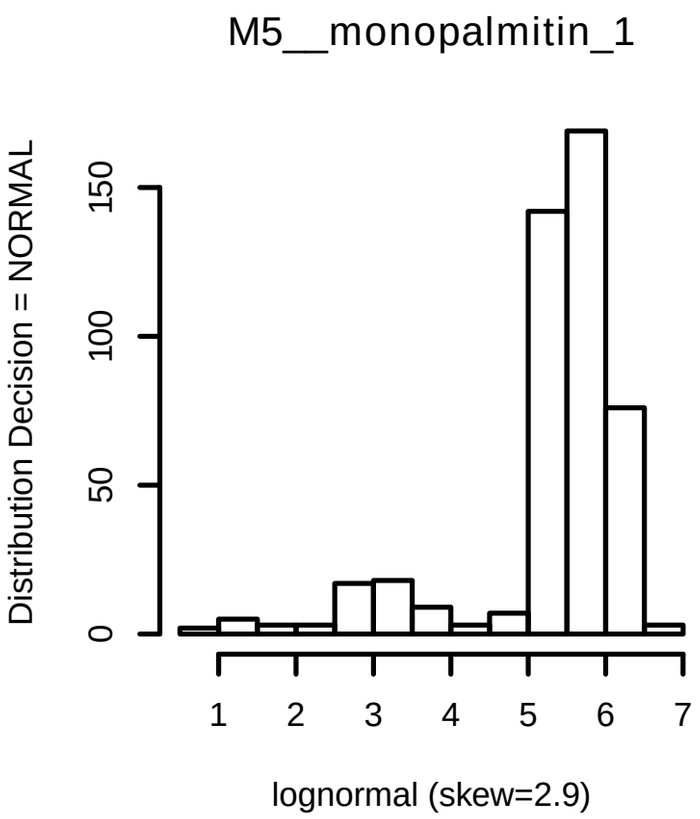

M5__3_5_trihydroxypyrazine_nist
Distribution Decision = NORMAL
0
20
40
60
80
100
0
200
600
1000
normal (skew=0.027)

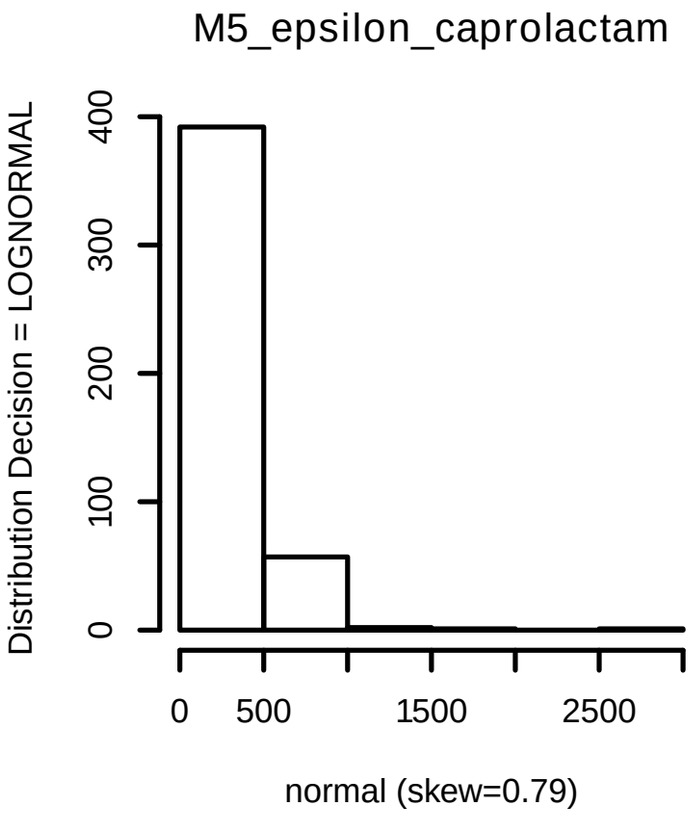

M5__3_5_trihydroxypyrazine_nist
Distribution Decision = NORMAL
0
20
40
60
80
120
2
3
4
5
6
7
lognormal (skew=0.097)

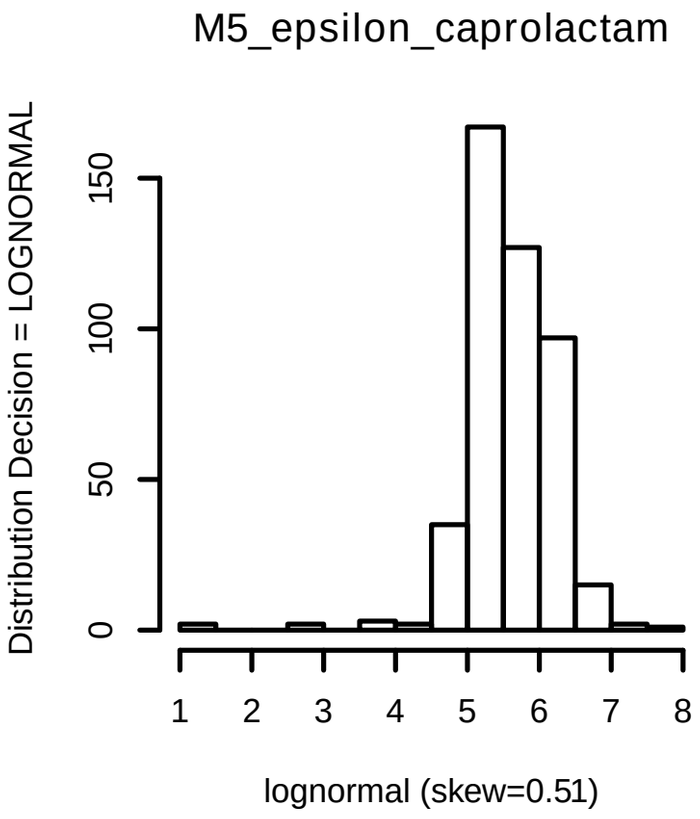

M5__aminoadipic_acid
Distribution Decision = NORMAL
0
20
40
60
80
100
0
200
400
600
800
normal (skew=0.014)

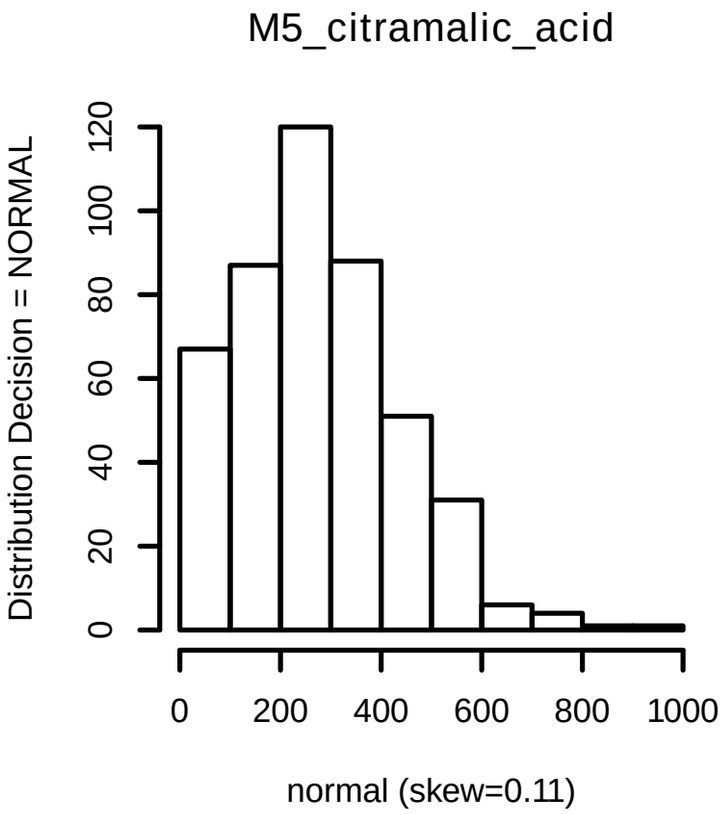

M5__aminoadipic_acid
Distribution Decision = NORMAL
0
50
100
150
2
3
4
5
6
7
lognormal (skew=0.075)

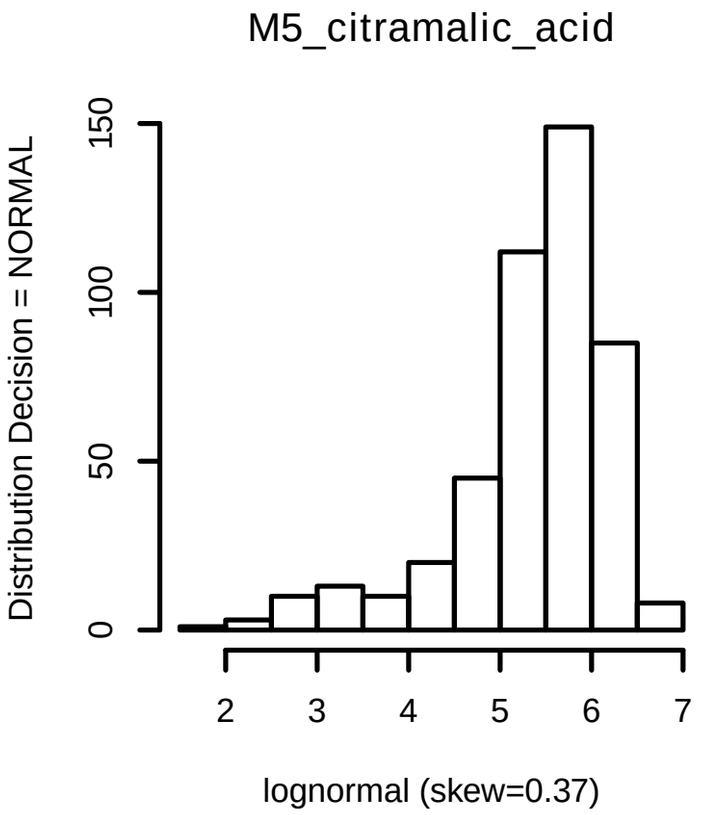

M5__monopalmitin_1
Distribution Decision = NORMAL
0
50
100
150
0
200
400
600
800
normal (skew=0.15)

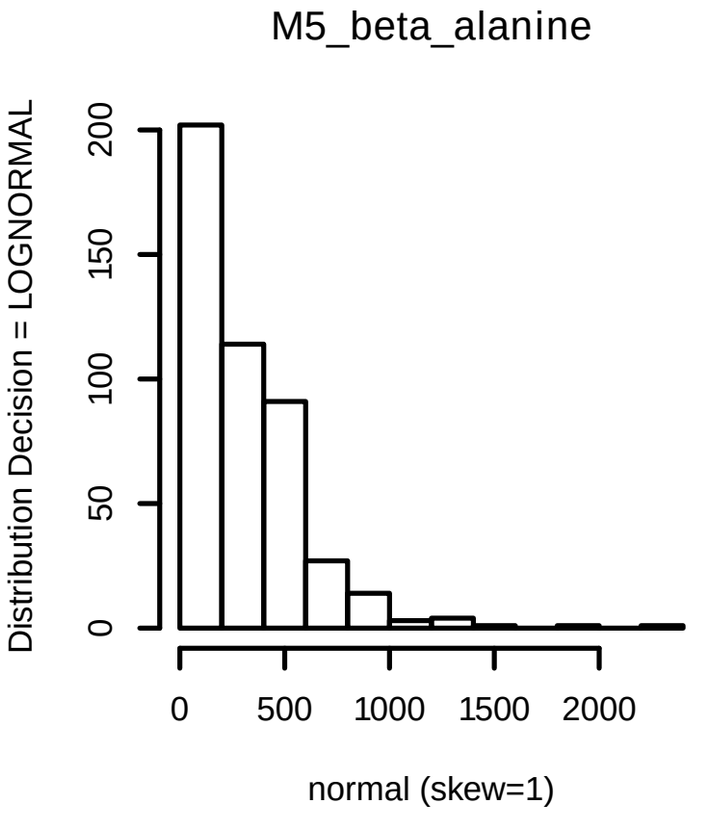

M5__monopalmitin_1
Distribution Decision = NORMAL
0
50
100
150
1
2
3
4
5
6
7
lognormal (skew=2.9)

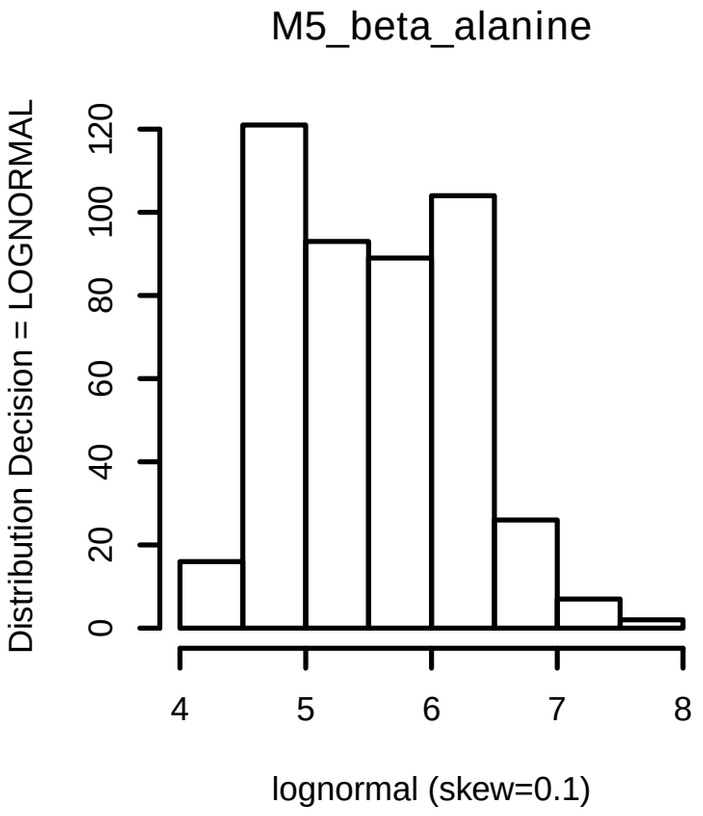

M5_epsilon_caprolactam
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
500
1500
2500
normal (skew=0.79)

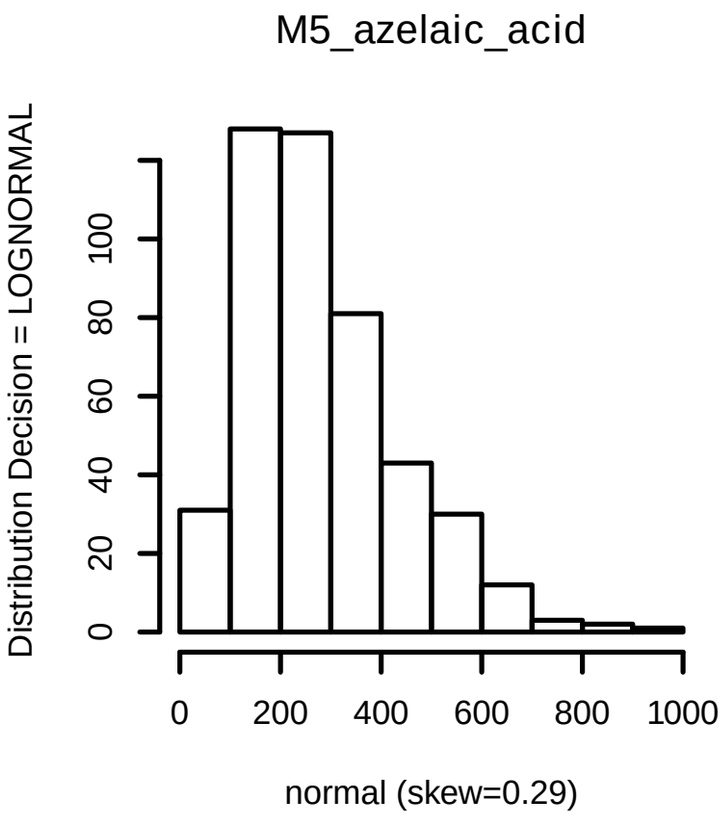

M5_epsilon_caprolactam
Distribution Decision = LOGNORMAL
0
50
100
150
1
2
3
4
5
6
7
8
lognormal (skew=0.51)

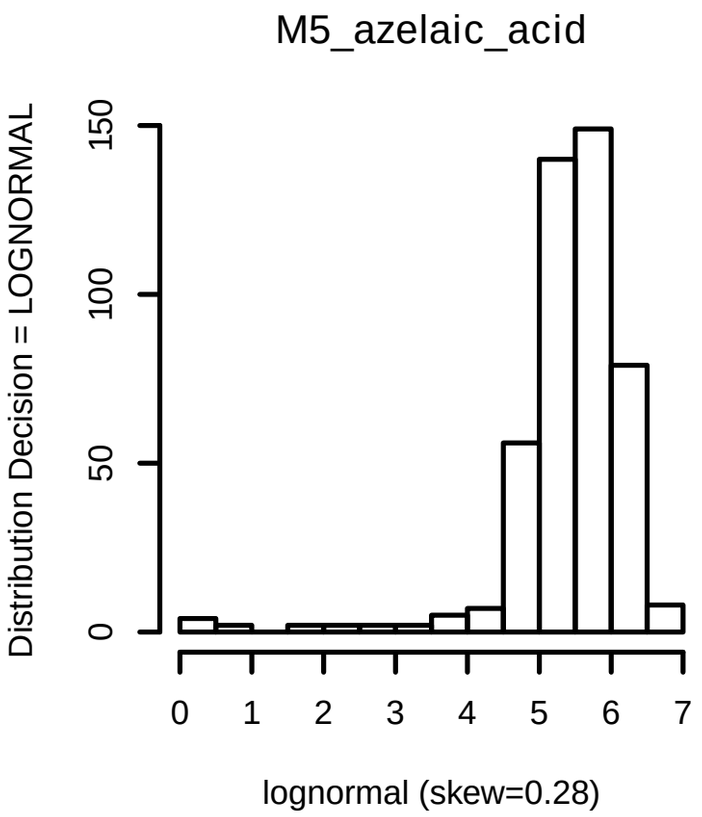

M5_citramalic_acid
Distribution Decision = NORMAL
0
20
40
60
80
100
120
0
200
400
600
800
1000
normal (skew=0.11)

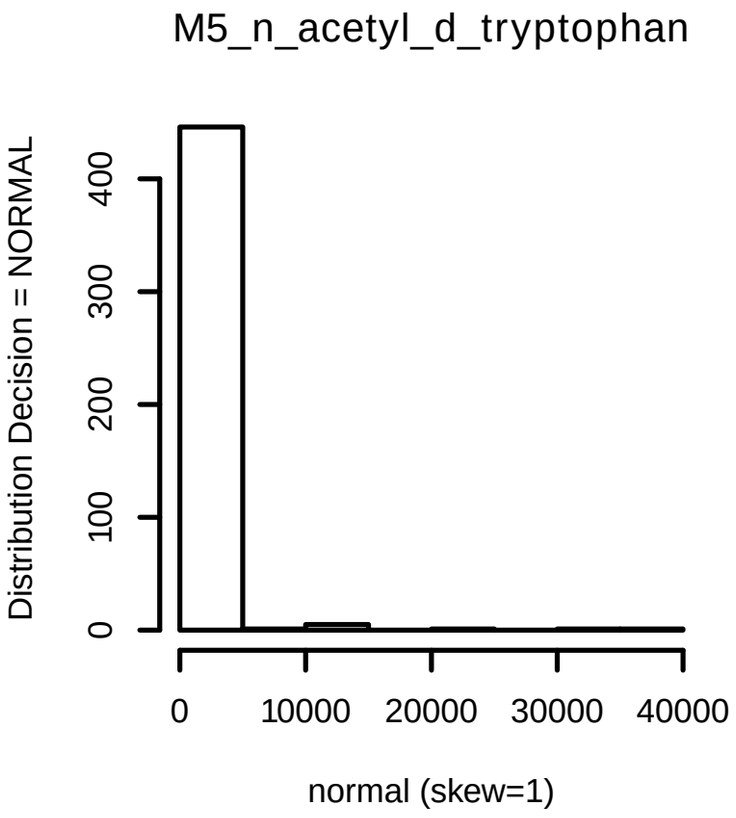

M5_citramalic_acid
Distribution Decision = NORMAL
0
50
100
150
2
3
4
5
6
7
lognormal (skew=0.37)

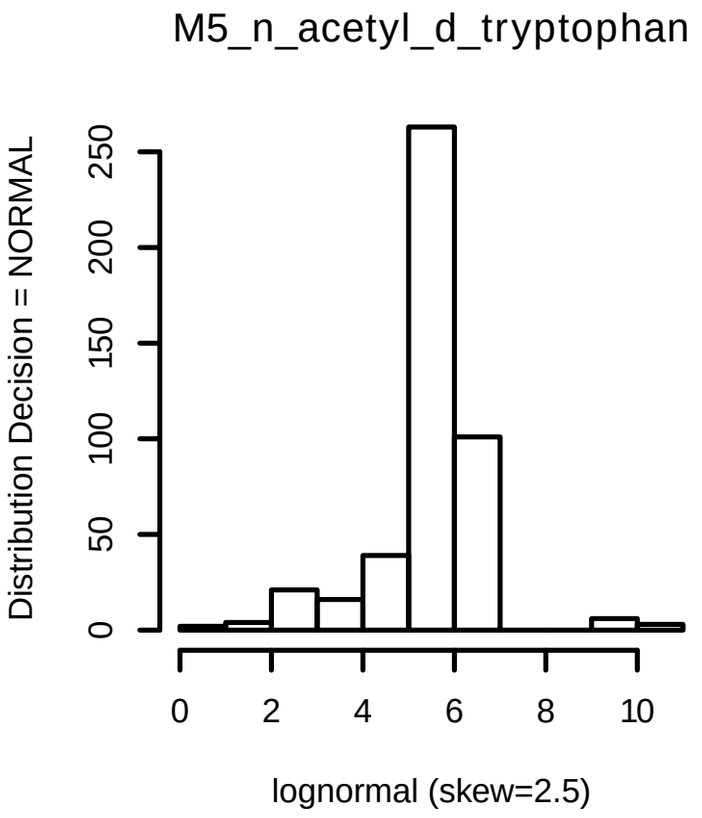

M5_beta_alanine
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1000
1500
2000
normal (skew=1)

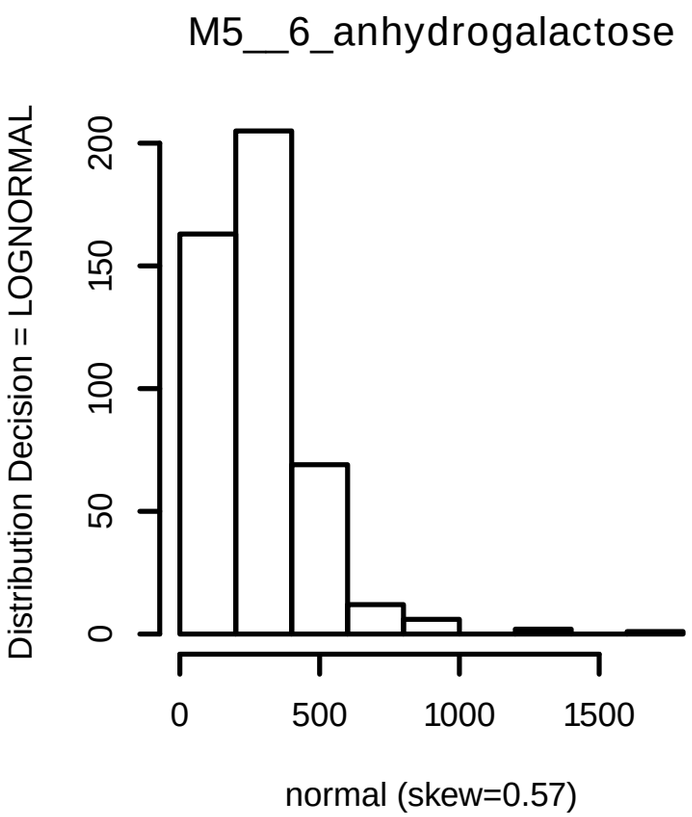

M5_beta_alanine
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
4
5
6
7
8
lognormal (skew=0.1)

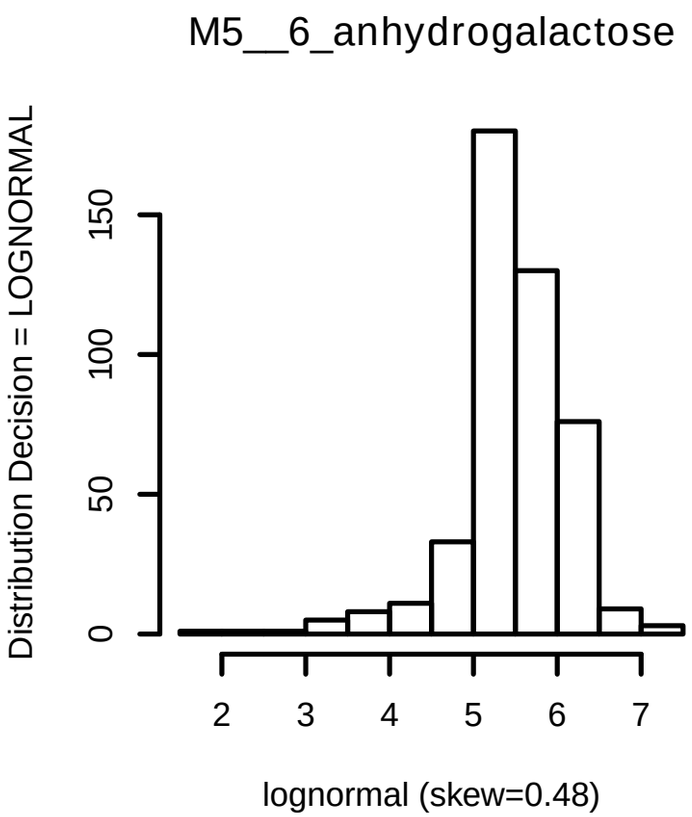

M5_azelaic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
200
400
600
800
1000
normal (skew=0.29)

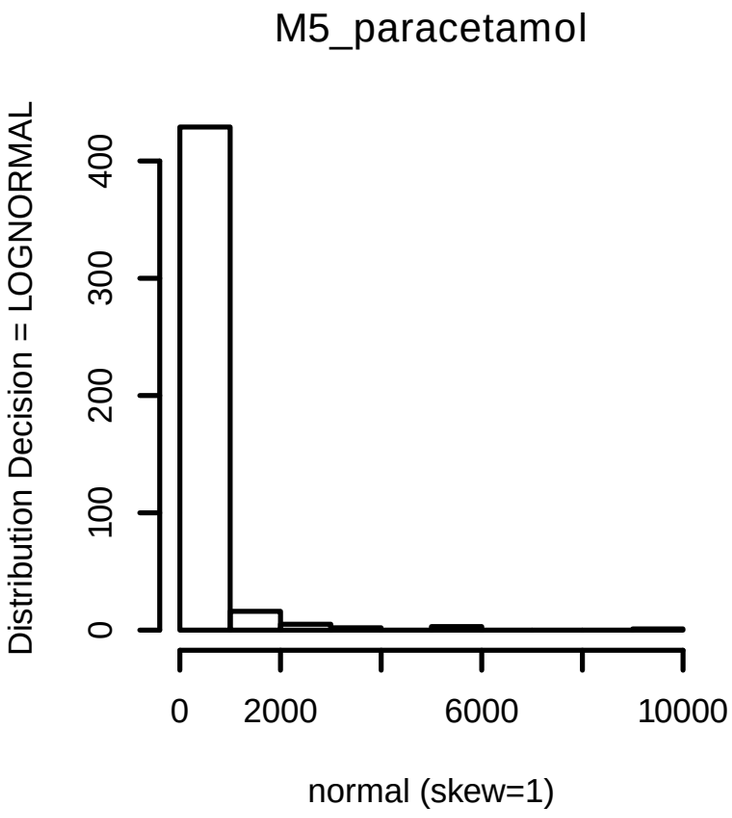

M5_azelaic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
1
2
3
4
5
6
7
lognormal (skew=0.28)

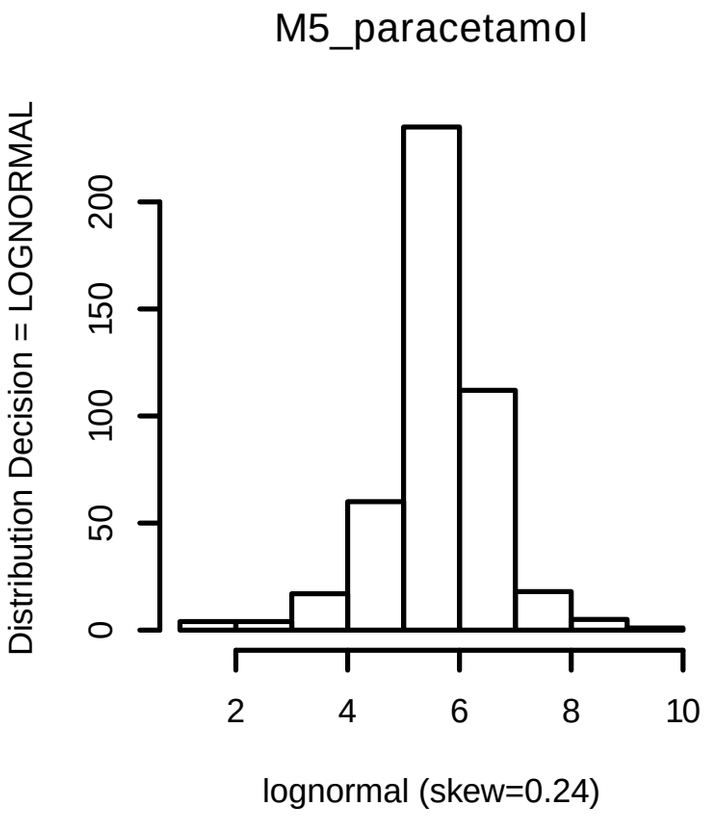

M5_n_acetyl_d_tryptophan
Distribution Decision = NORMAL
0
100
200
300
400
0
10000
20000
30000
40000
normal (skew=1)

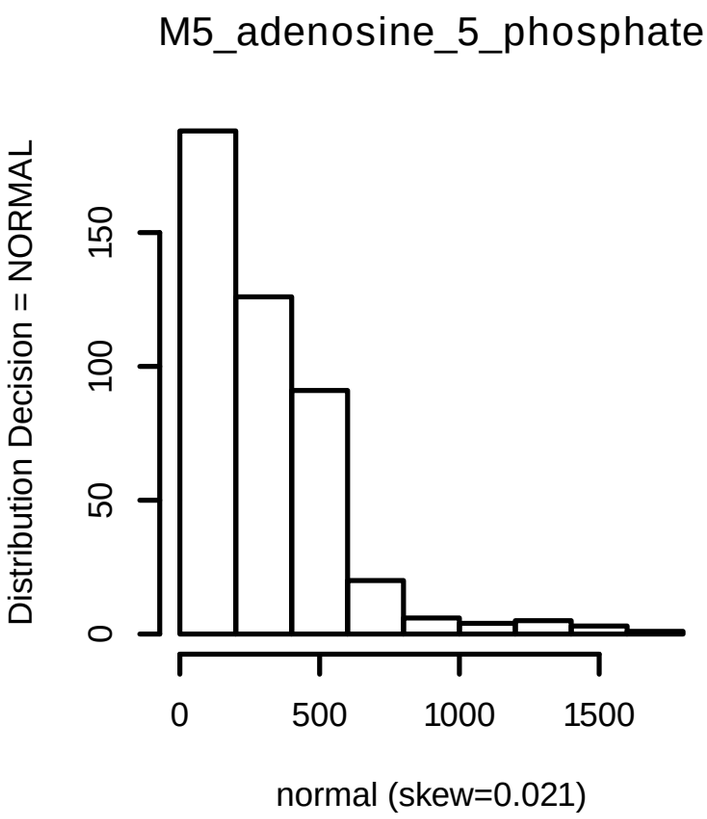

M5_n_acetyl_d_tryptophan
Distribution Decision = NORMAL
0
50
100
150
200
250
0
2
4
6
8
10
lognormal (skew=2.5)

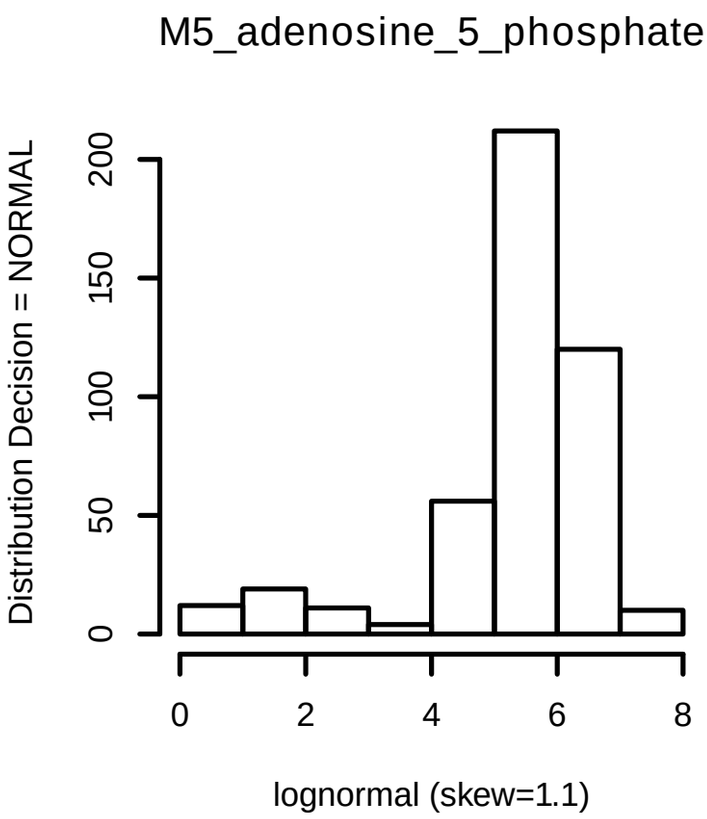

M5__6_anhydrogalactose
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1000
1500
normal (skew=0.57)

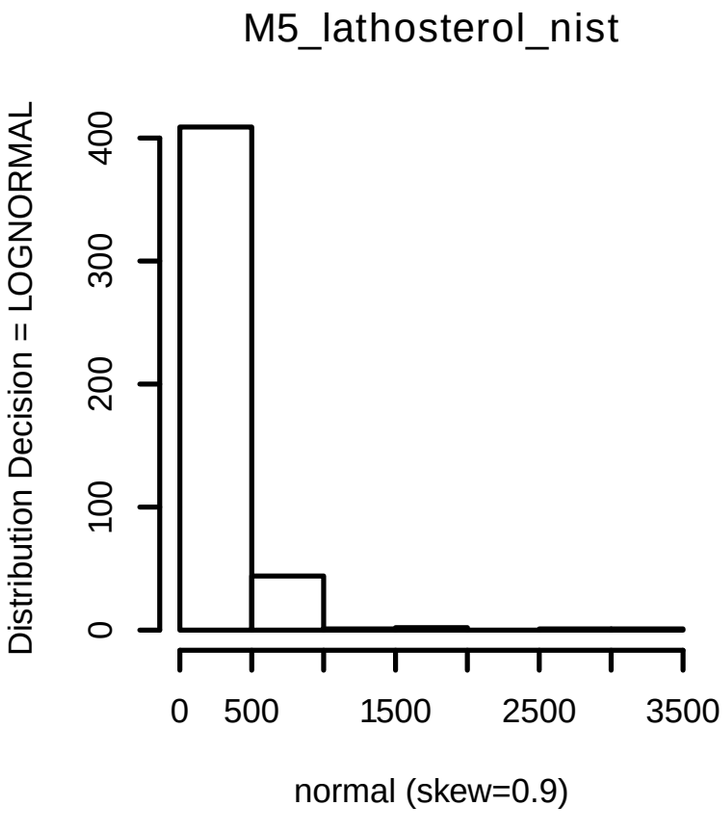

M5__6_anhydrogalactose
Distribution Decision = LOGNORMAL
0
50
100
150
2
3
4
5
6
7
lognormal (skew=0.48)

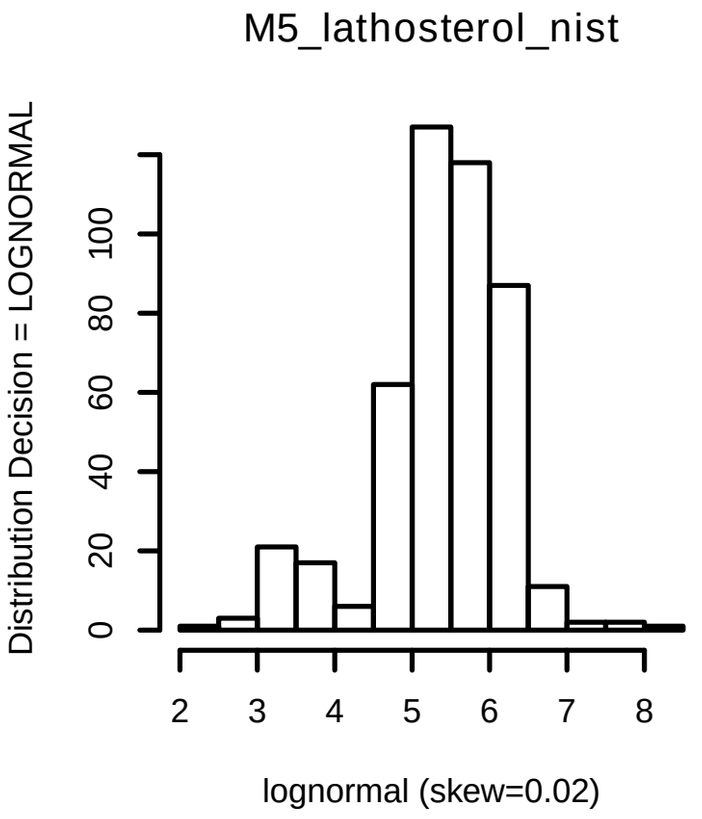

M5_paracetamol
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
2000
6000
10000
normal (skew=1)

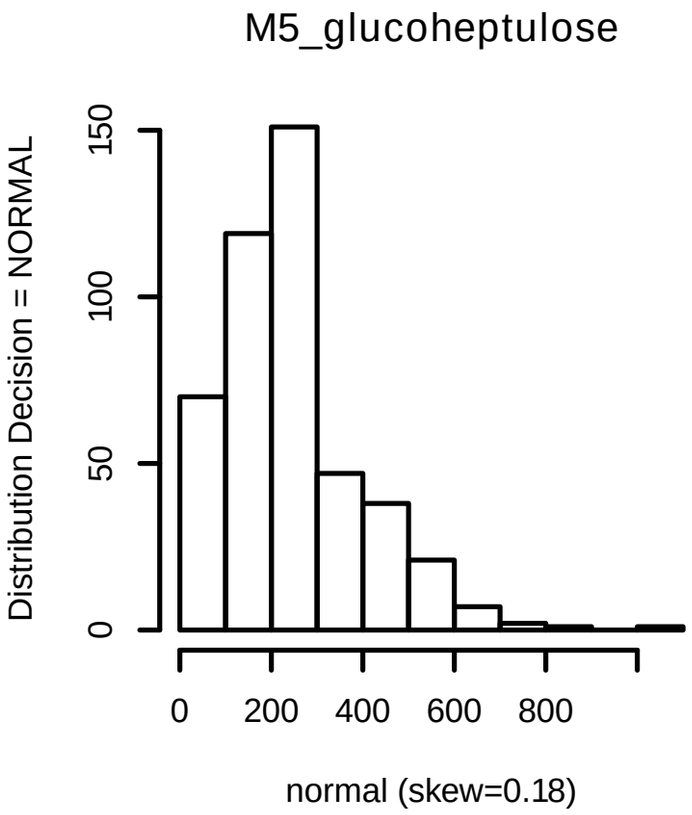

M5_paracetamol
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
10
lognormal (skew=0.24)

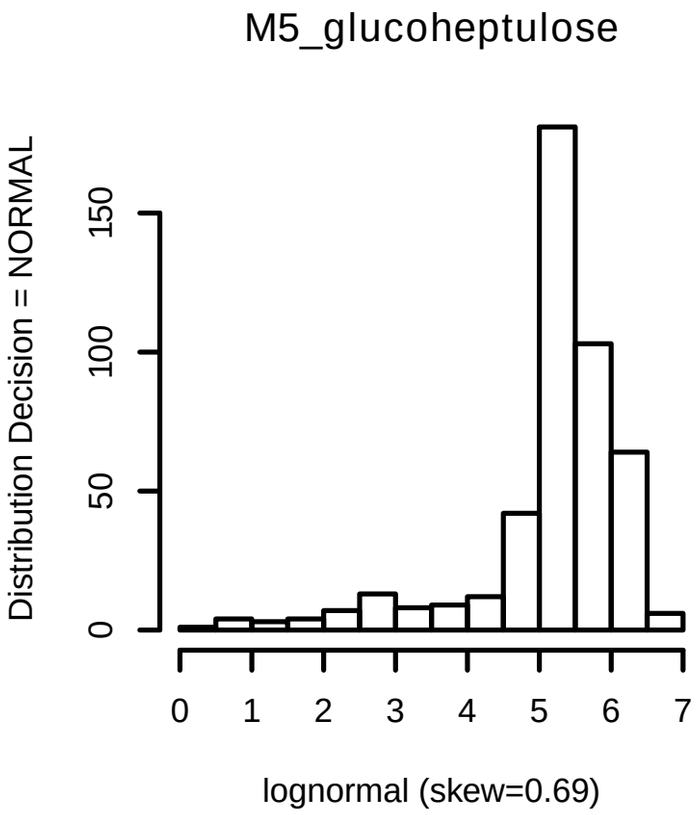

M5_adenosine_5_phosphate
Distribution Decision = NORMAL
0
50
100
150
0
500
1000
1500
normal (skew=0.021)

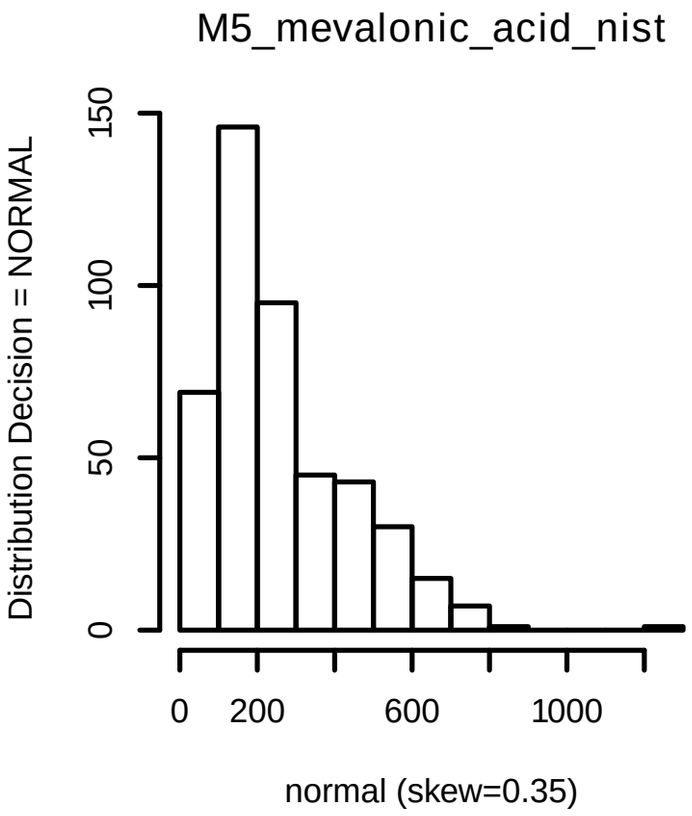

M5_adenosine_5_phosphate
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=1.1)

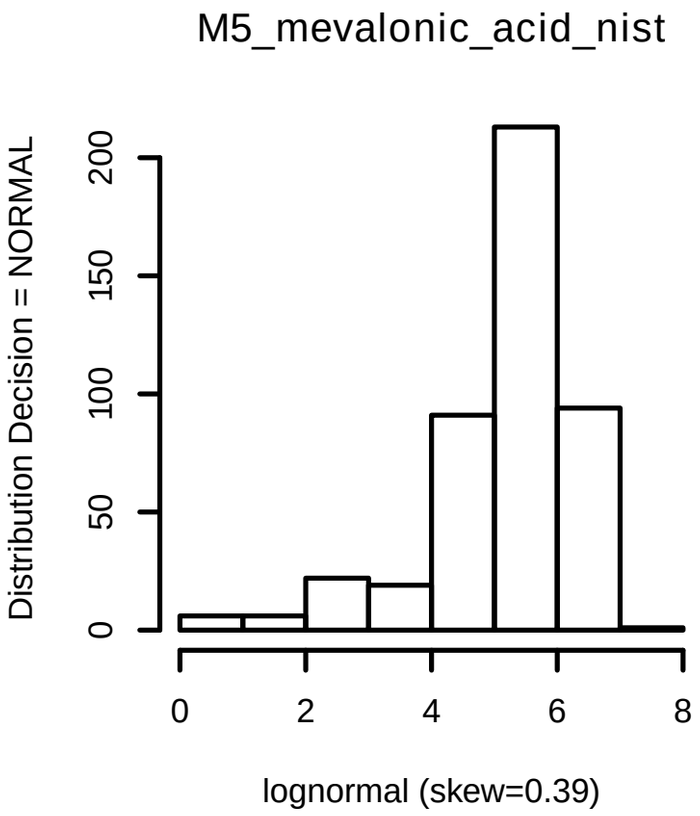

M5_lathosterol_nist
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
500
1500
2500
3500
normal (skew=0.9)

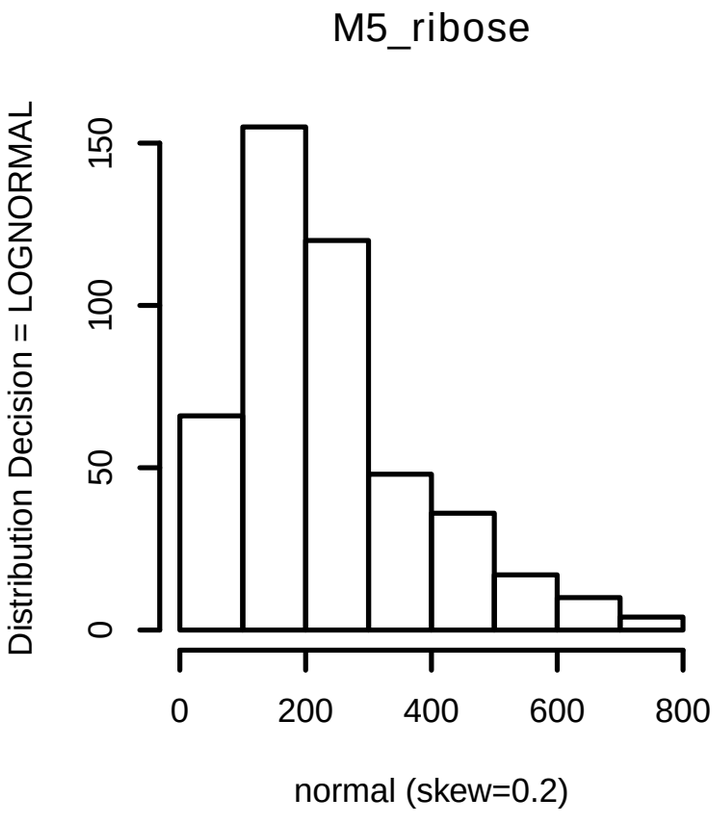

M5_lathosterol_nist
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
2
3
4
5
6
7
8
lognormal (skew=0.02)

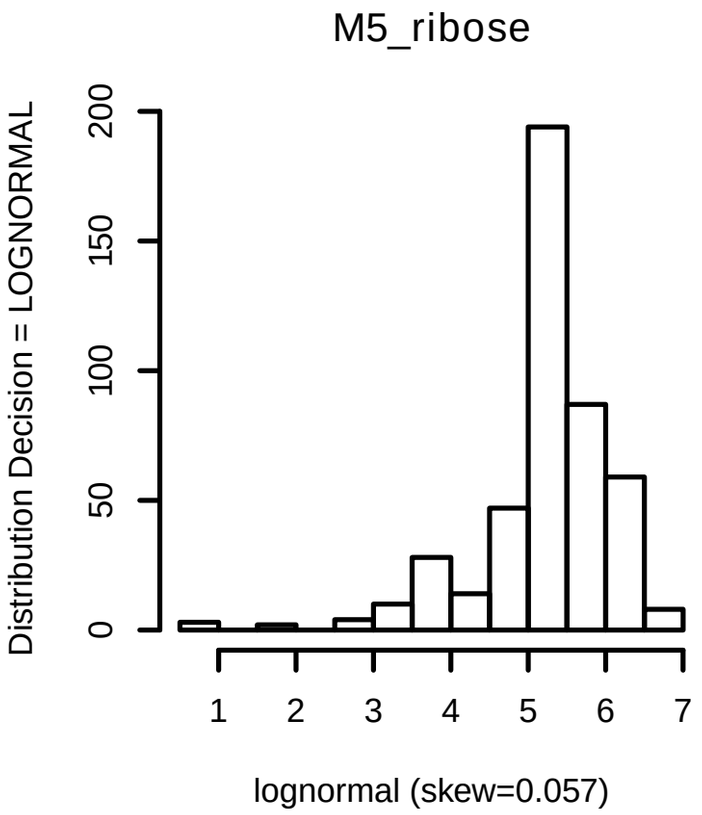

M5_glucoheptulose
Distribution Decision = NORMAL
0
50
100
150
0
200
400
600
800
normal (skew=0.18)

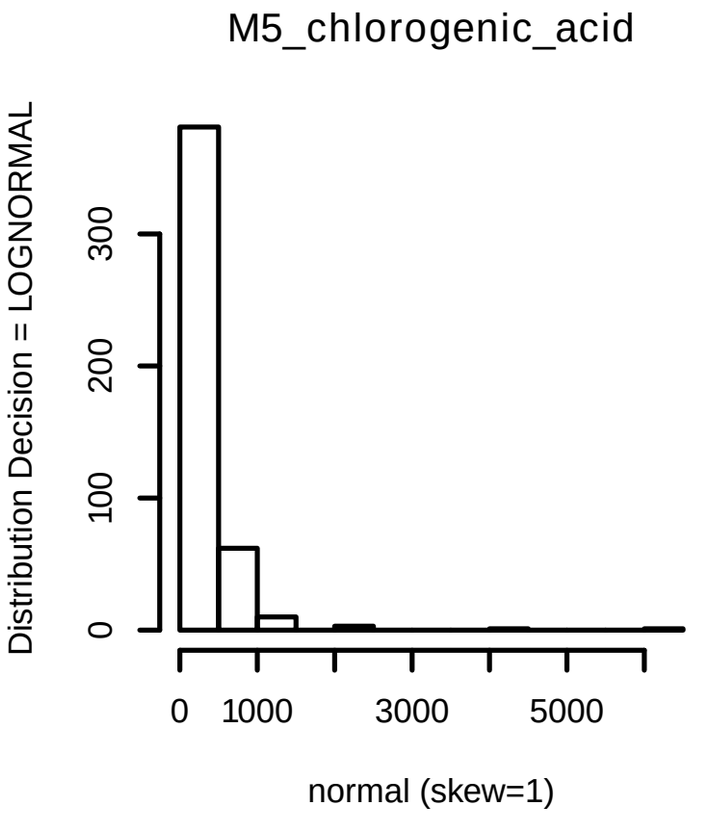

M5_glucoheptulose
Distribution Decision = NORMAL
0
50
100
150
0
1
2
3
4
5
6
7
lognormal (skew=0.69)

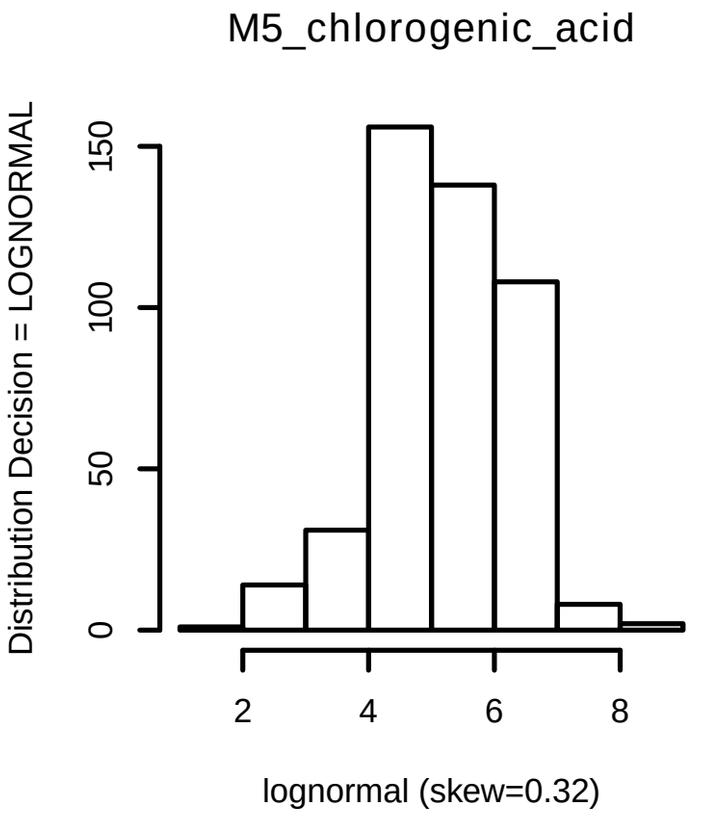

M5_mevalonic_acid_nist
Distribution Decision = NORMAL
0
50
100
150
0
200
600
1000
normal (skew=0.35)

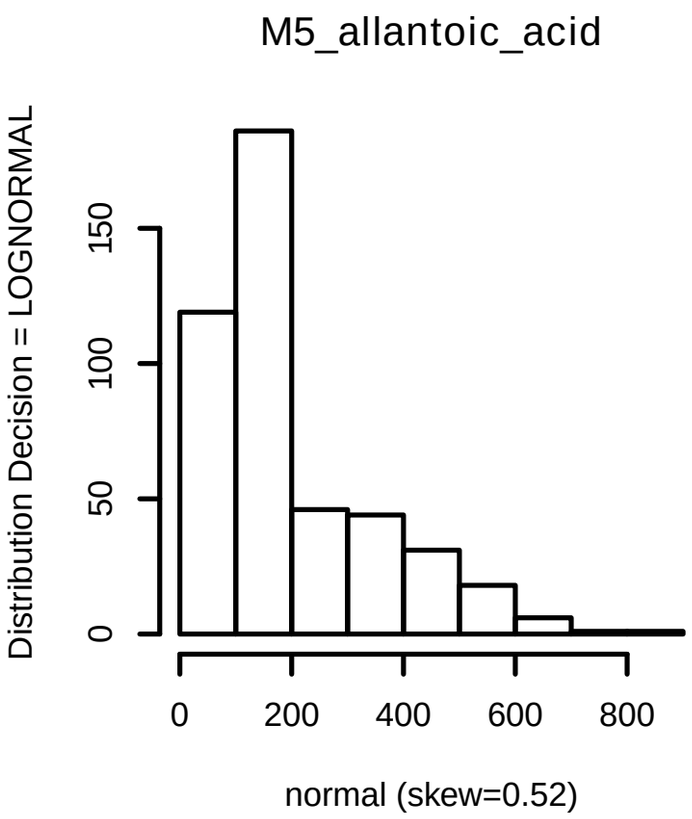

M5_mevalonic_acid_nist
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.39)

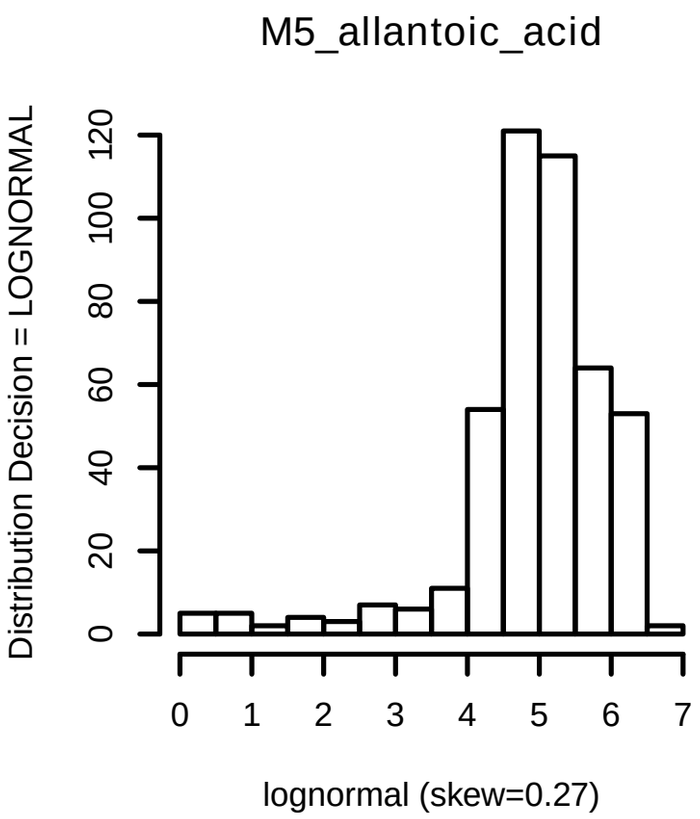

M5_ribose
Distribution Decision = LOGNORMAL
0
50
100
150
0
200
400
600
800
normal (skew=0.2)

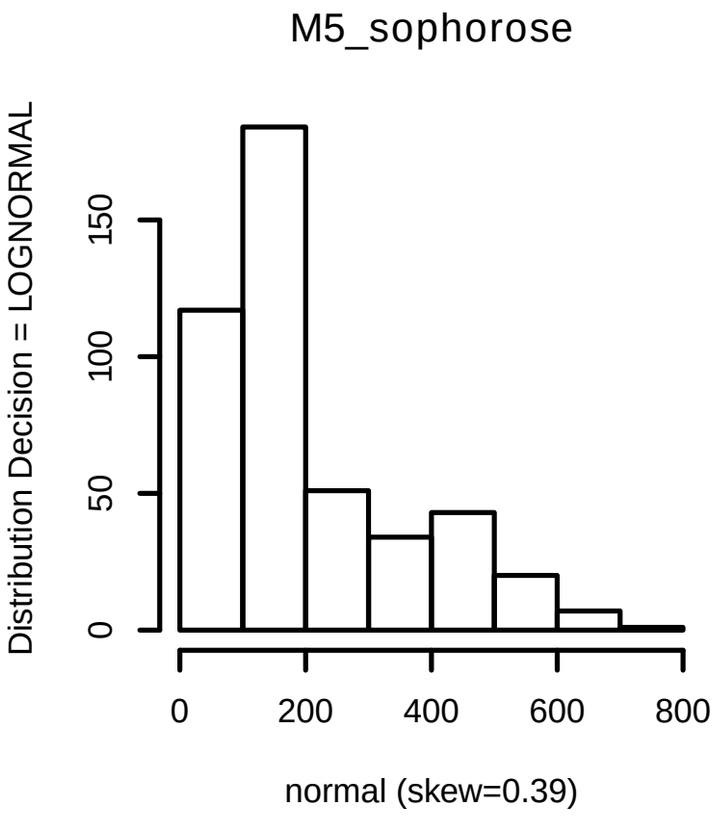

M5_ribose
Distribution Decision = LOGNORMAL
0
50
100
150
200
1
2
3
4
5
6
7
lognormal (skew=0.057)

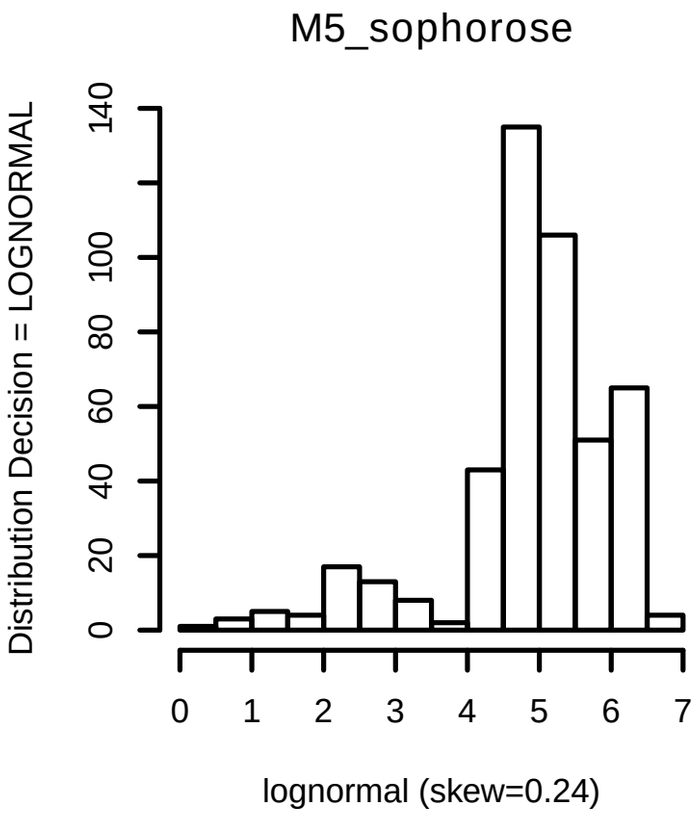

M5_chlorogenic_acid
Distribution Decision = LOGNORMAL
0
100
200
300
0
1000
3000
5000
normal (skew=1)

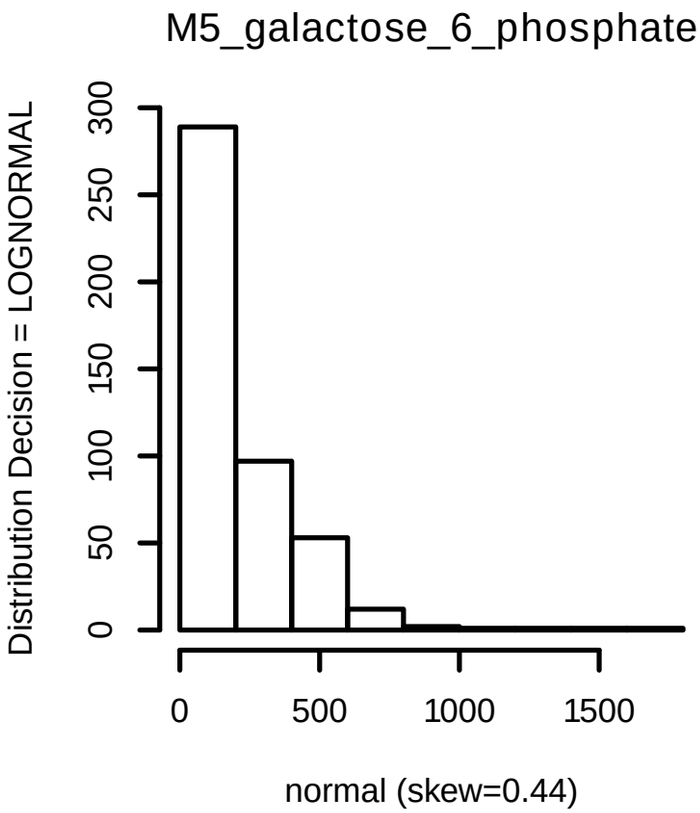

M5_chlorogenic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
lognormal (skew=0.32)

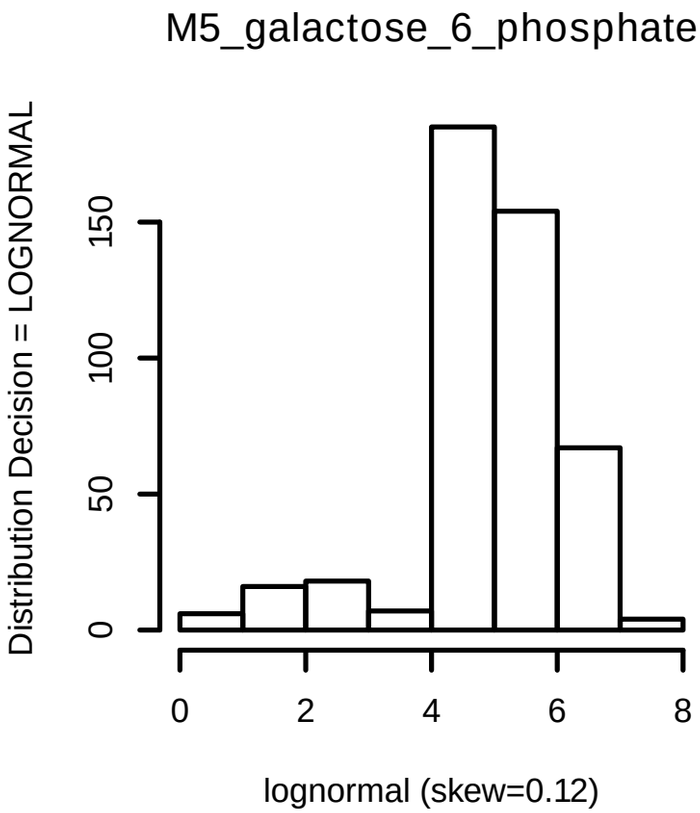

M5_allantoic_acid
Distribution Decision = LOGNORMAL
0
50
100
150
0
200
400
600
800
normal (skew=0.52)

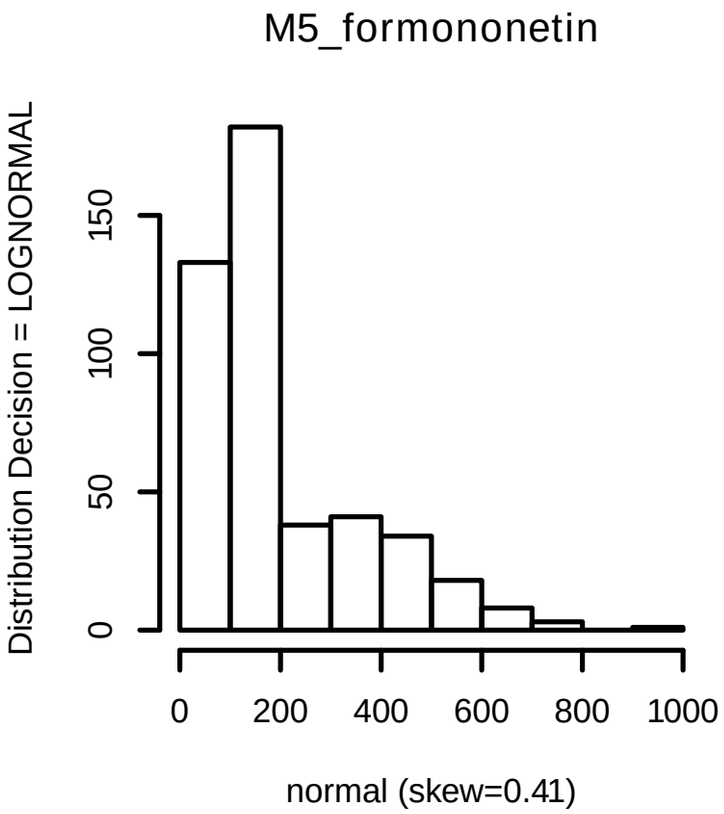

M5_allantoic_acid
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
1
2
3
4
5
6
7
lognormal (skew=0.27)

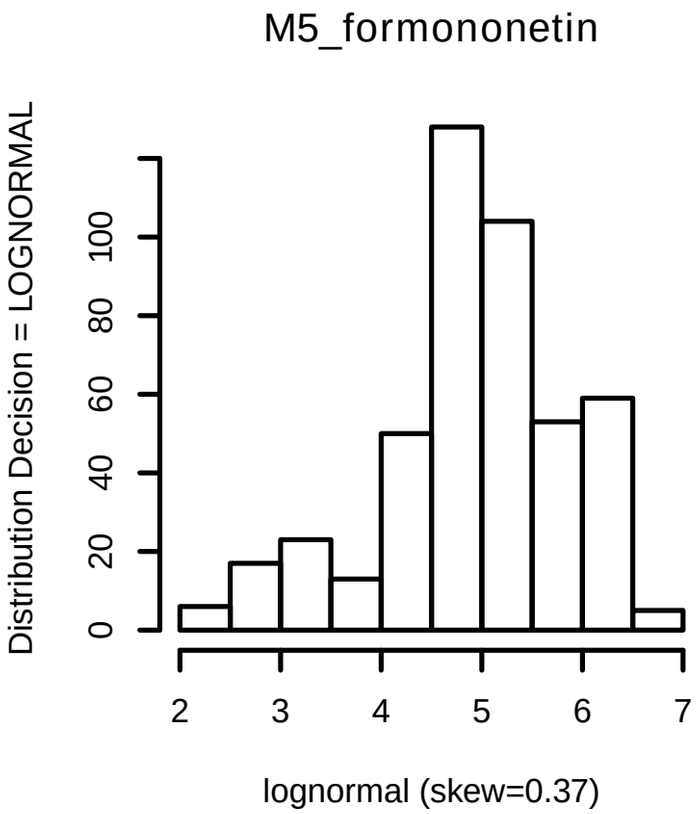

M5_sophorose
Distribution Decision = LOGNORMAL
0
50
100
150
0
200
400
600
800
normal (skew=0.39)

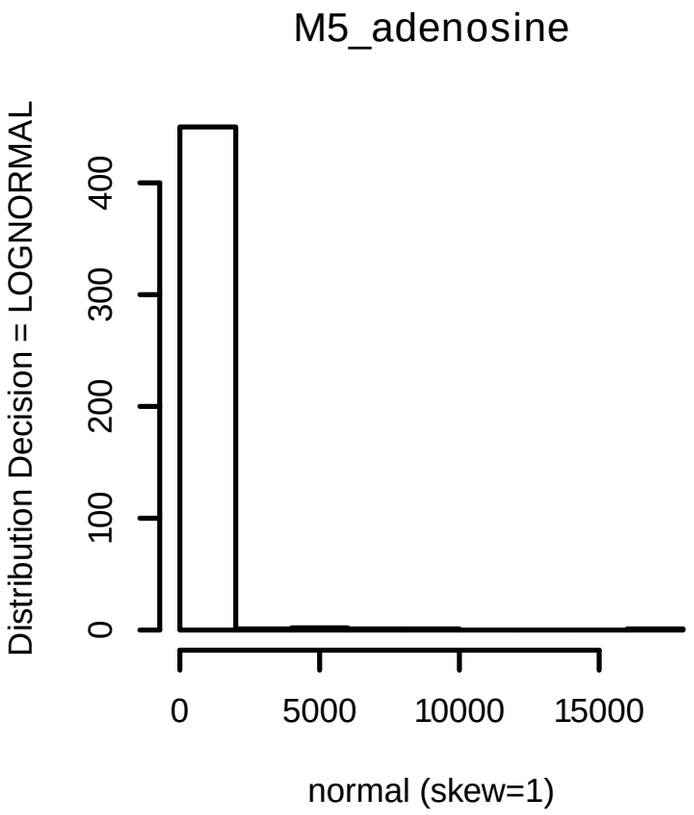

M5_sophorose
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
0
1
2
3
4
5
6
7
lognormal (skew=0.24)

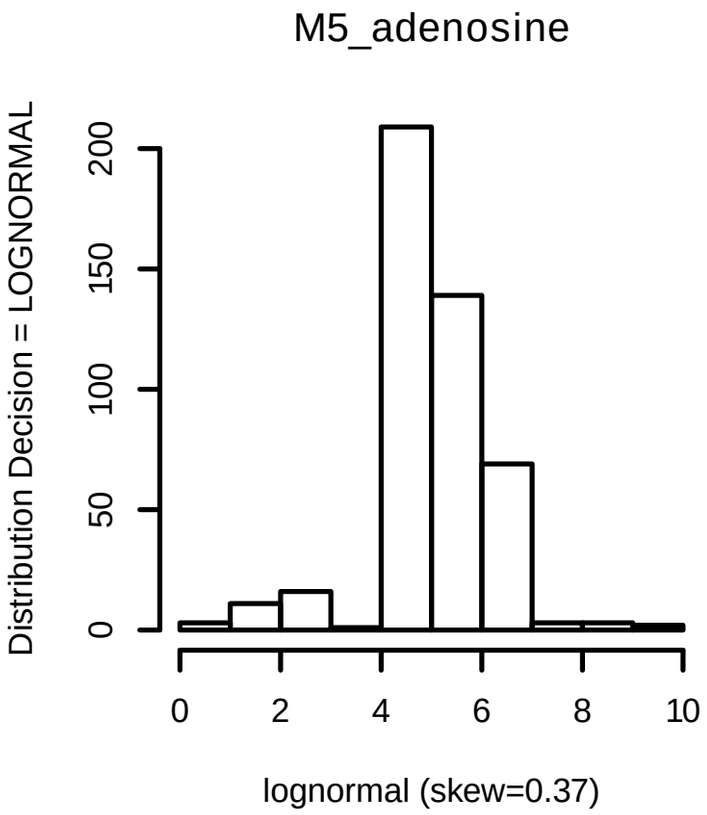

M5_galactose_6_phosphate
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
500
1000
1500
normal (skew=0.44)

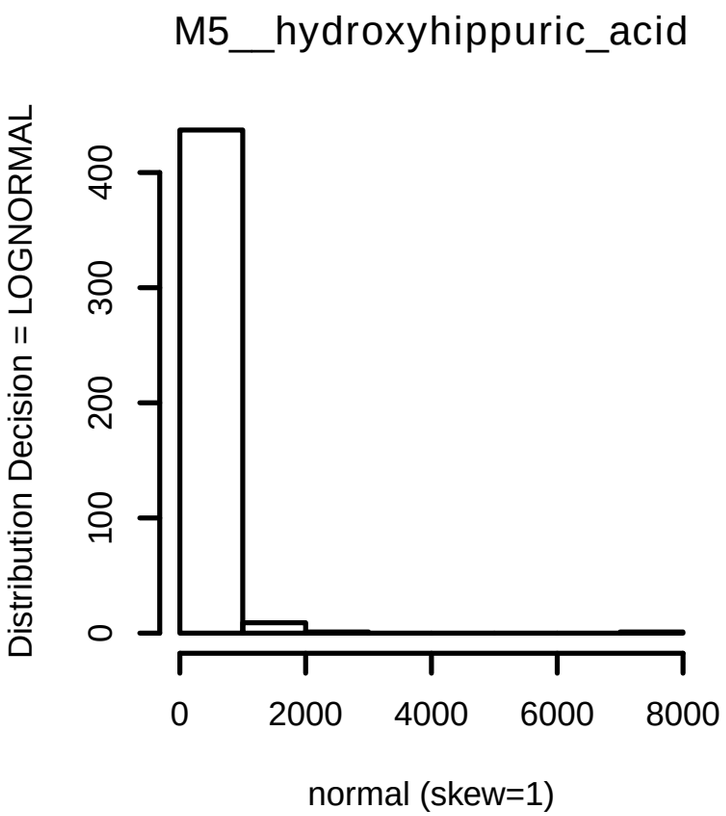

M5_galactose_6_phosphate
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=0.12)

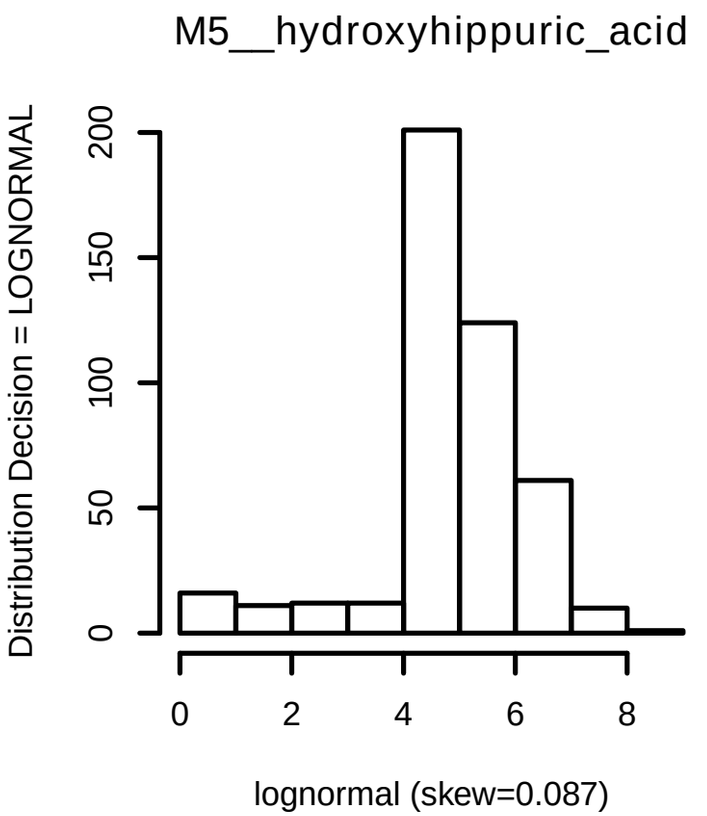

M5_formononetin
Distribution Decision = LOGNORMAL
0
50
100
150
0
200
400
600
800
1000
normal (skew=0.41)

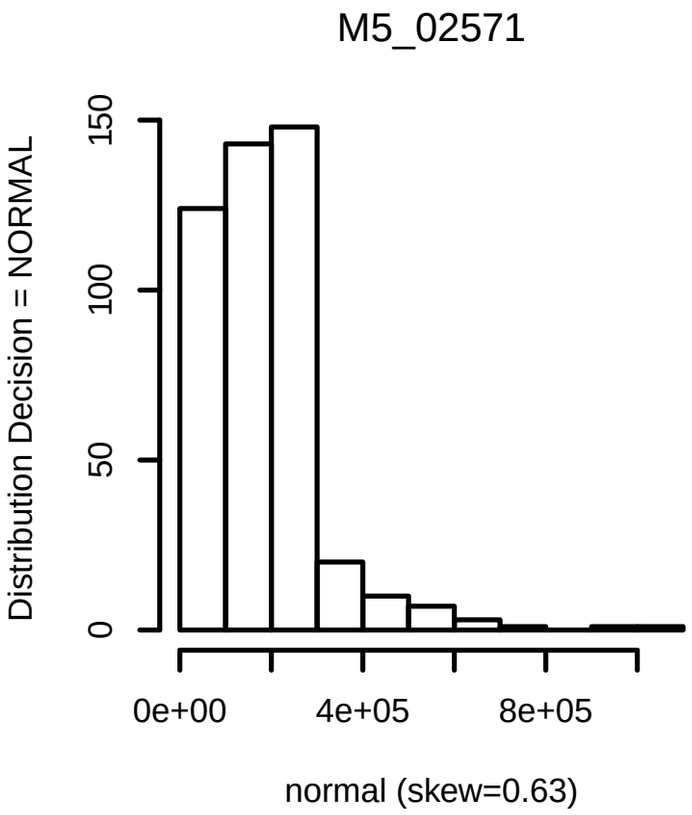

M5_formononetin
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
2
3
4
5
6
7
lognormal (skew=0.37)

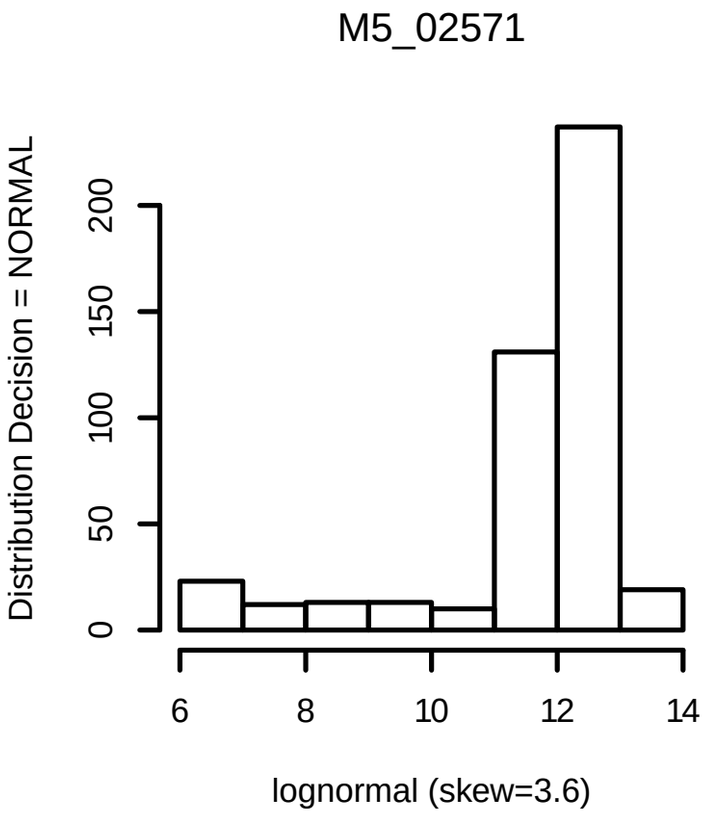

M5_adenosine
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
15000
normal (skew=1)

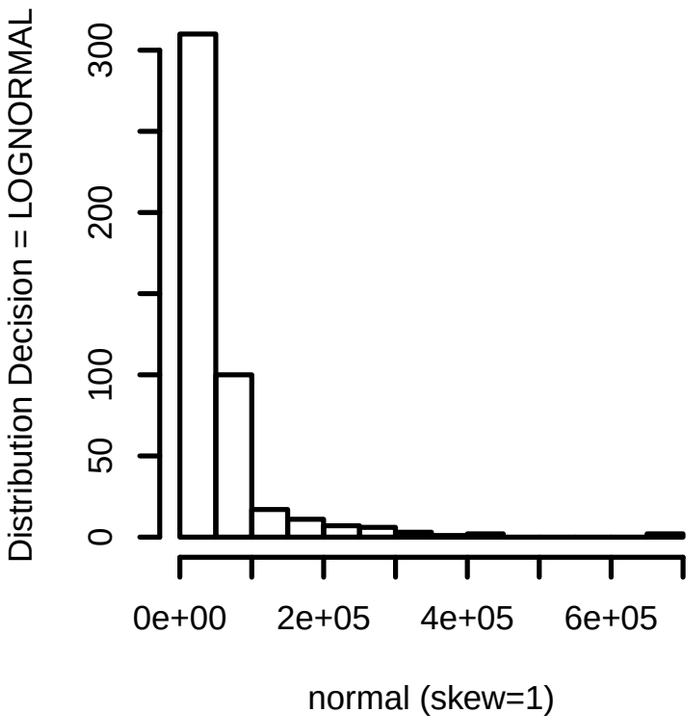

M5_adenosine
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
10
lognormal (skew=0.37)

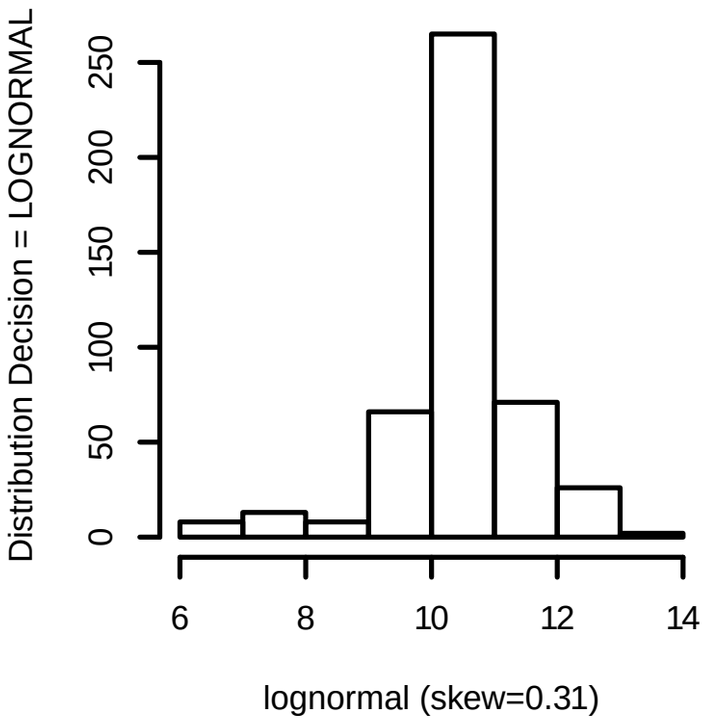

M5__hydroxyhippuric_acid
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
2000
4000
6000
8000
normal (skew=1)

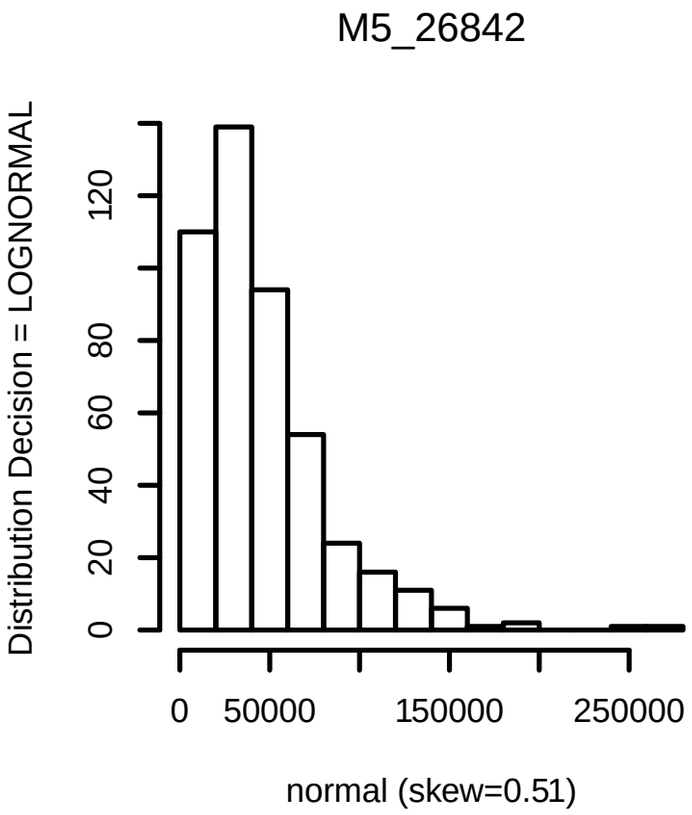

M5__hydroxyhippuric_acid
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.087)

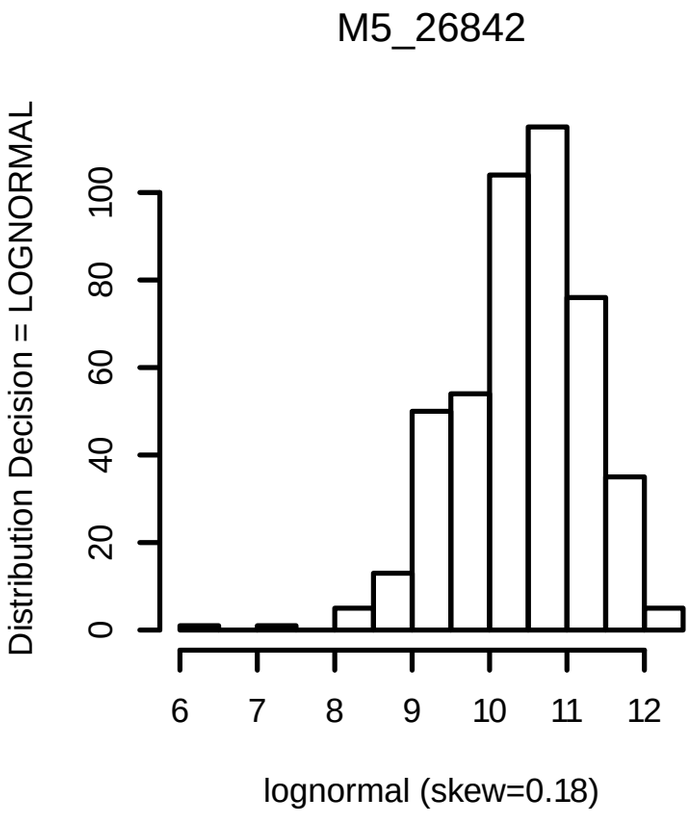

M5_02571
Distribution Decision = NORMAL
0
50
100
150
0e+00
4e+05
8e+05
normal (skew=0.63)

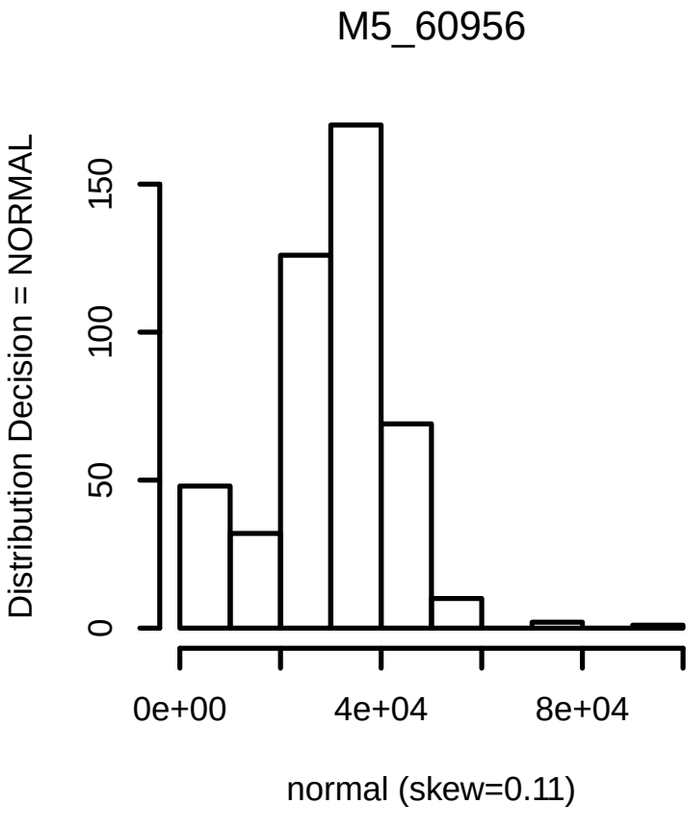

M5_02571
Distribution Decision = NORMAL
0
50
100
150
200
6
8
10
12
14
lognormal (skew=3.6)

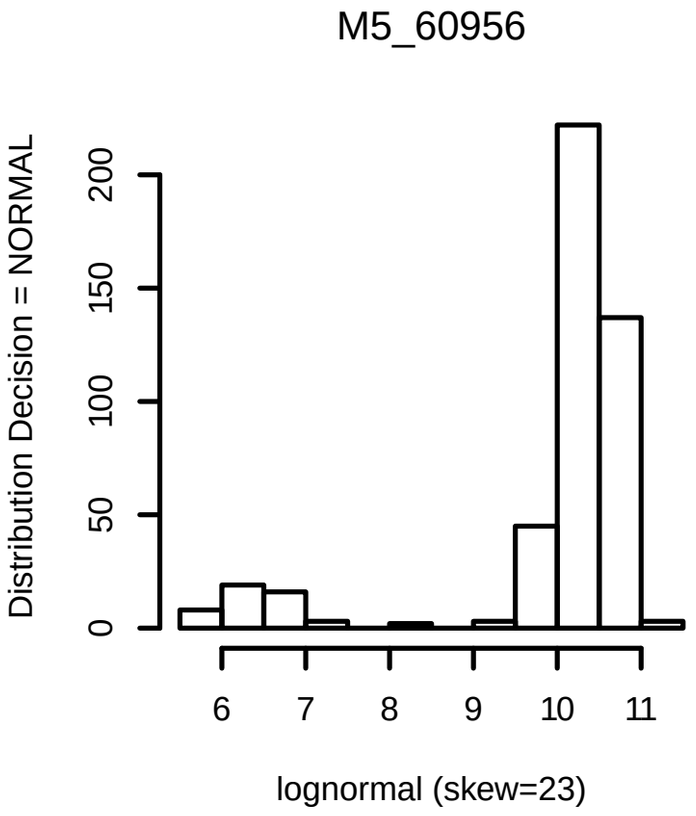

M5_73067
Distribution Decision = LOGNORMAL
0
50
100
200
300
0e+00
2e+05
4e+05
6e+05
normal (skew=1)

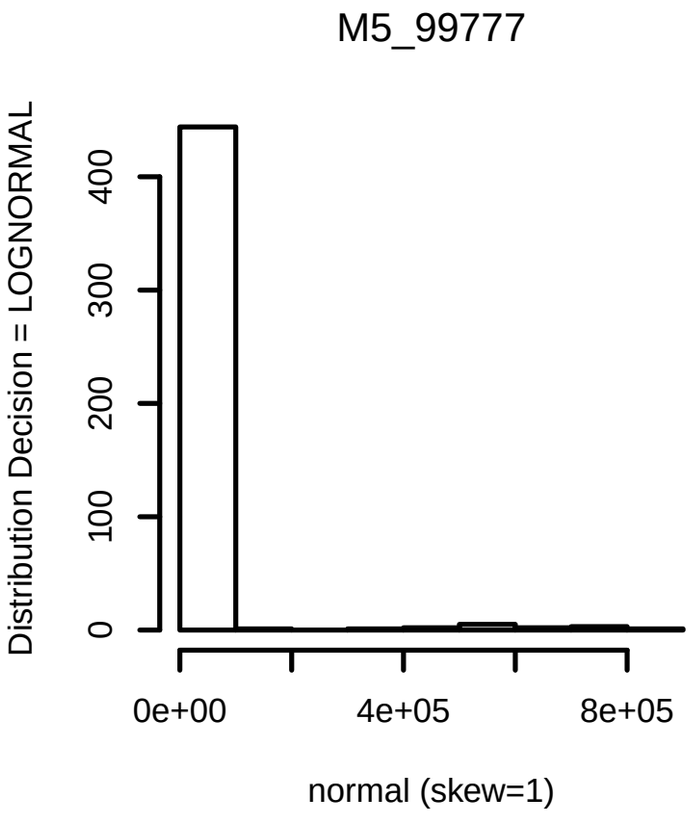

M5_73067
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
6
8
10
12
14
lognormal (skew=0.31)

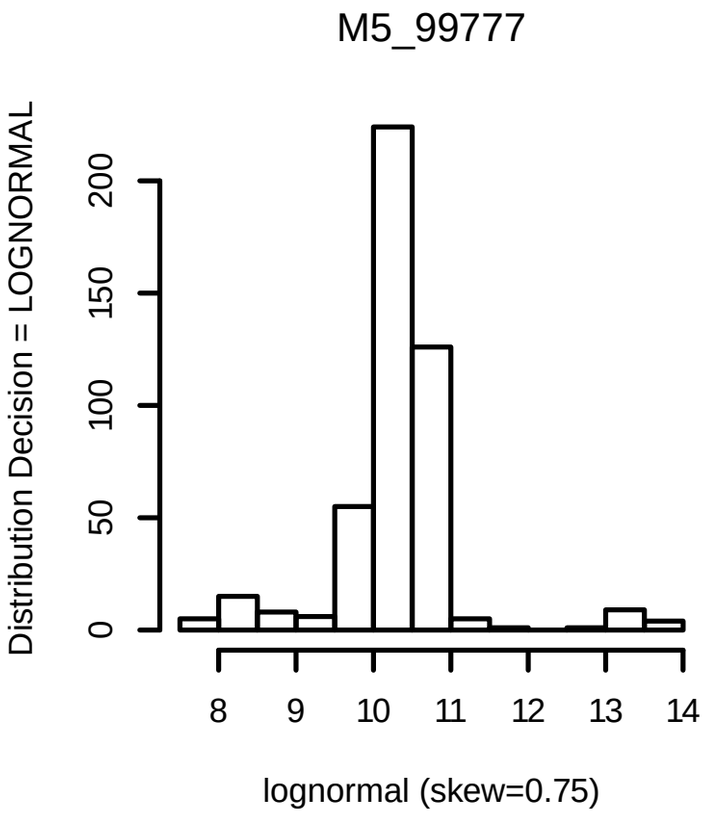

M5_26842
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
50000
150000
250000
normal (skew=0.51)

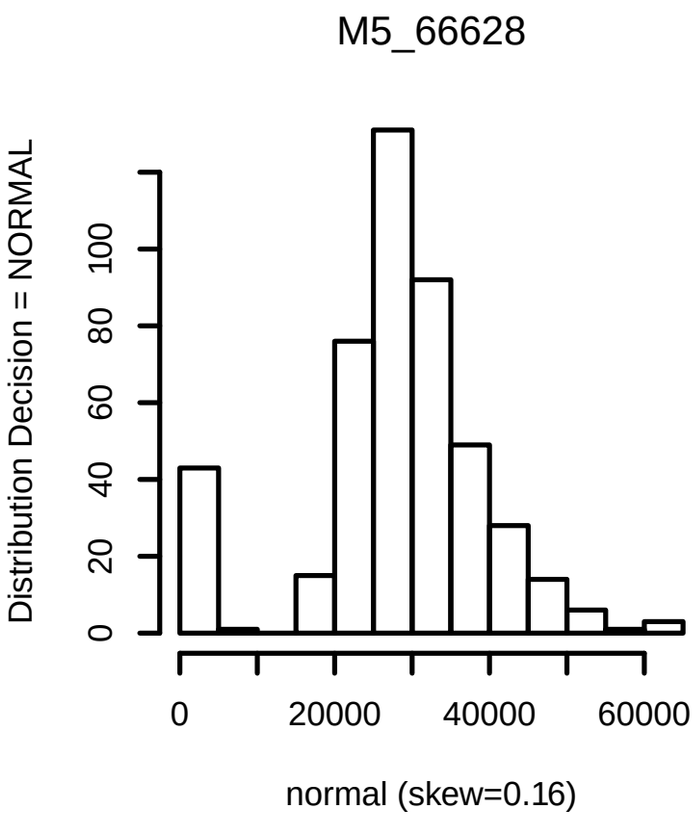

M5_26842
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
11
12
lognormal (skew=0.18)

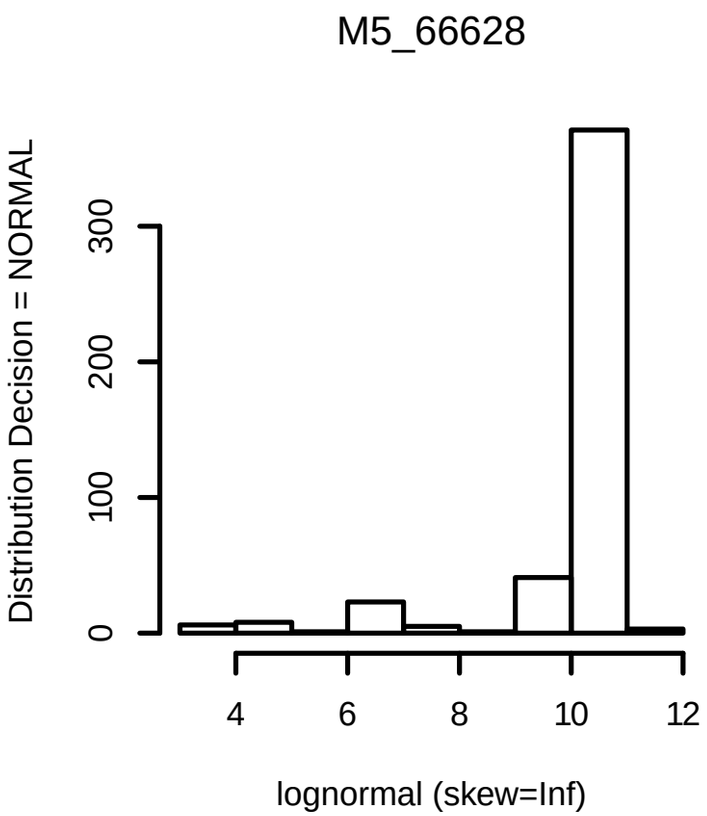

M5_60956
Distribution Decision = NORMAL
0
50
100
150
0e+00
4e+04
8e+04
normal (skew=0.11)

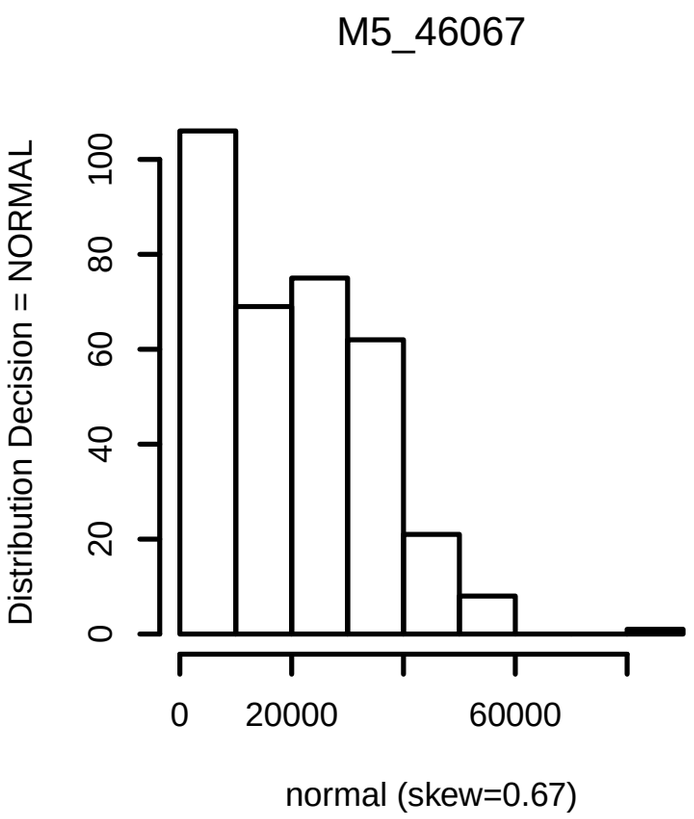

M5_60956
Distribution Decision = NORMAL
0
50
100
150
200
6
7
8
9
10
11
lognormal (skew=23)

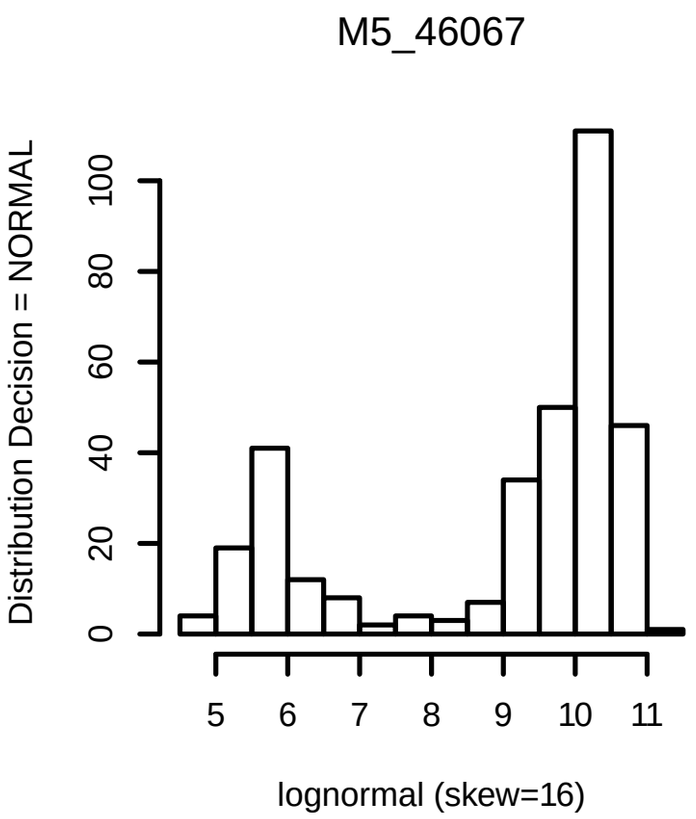

M5_99777
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
4e+05
8e+05
normal (skew=1)

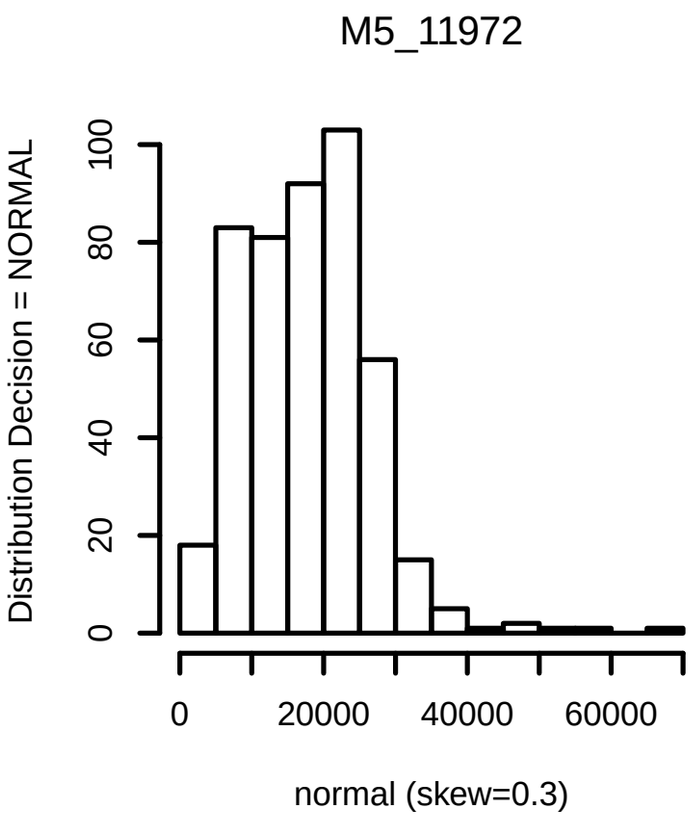

M5_99777
Distribution Decision = LOGNORMAL
0
50
100
150
200
8
9
10
11
12
13
14
lognormal (skew=0.75)

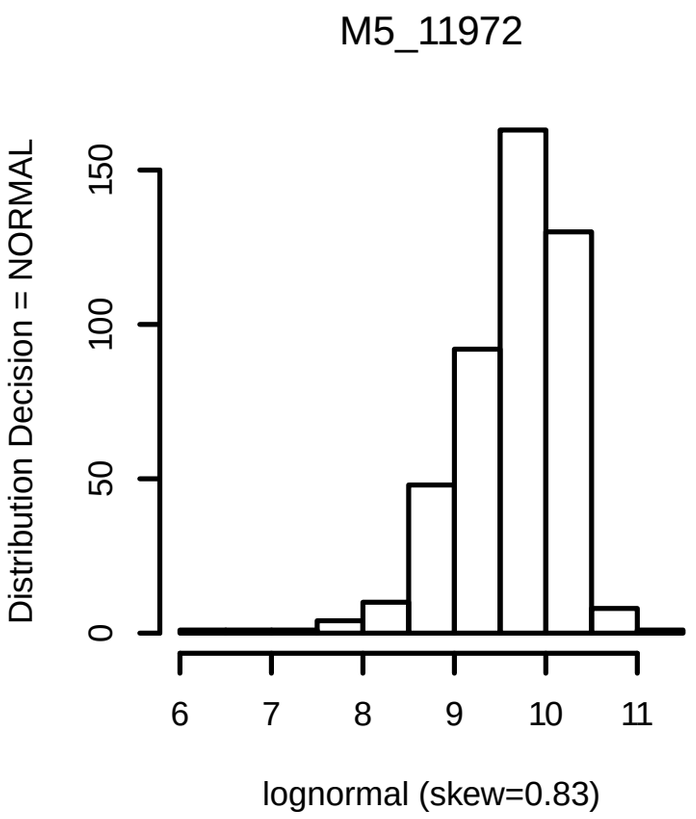

M5_66628
Distribution Decision = NORMAL
0
20
40
60
80
100
0
20000
40000
60000
normal (skew=0.16)

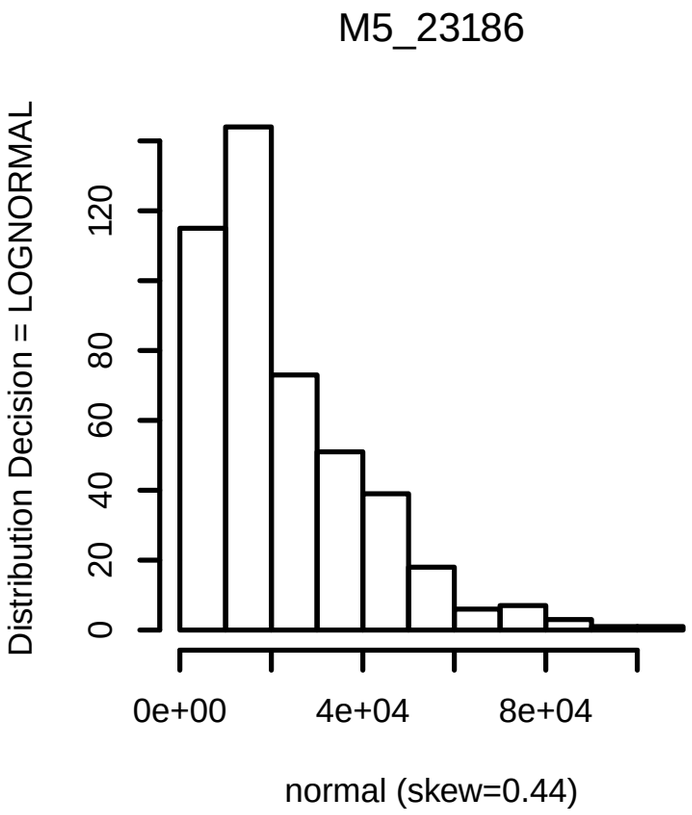

M5_66628
Distribution Decision = NORMAL
0
100
200
300
4
6
8
10
12
lognormal (skew=Inf)

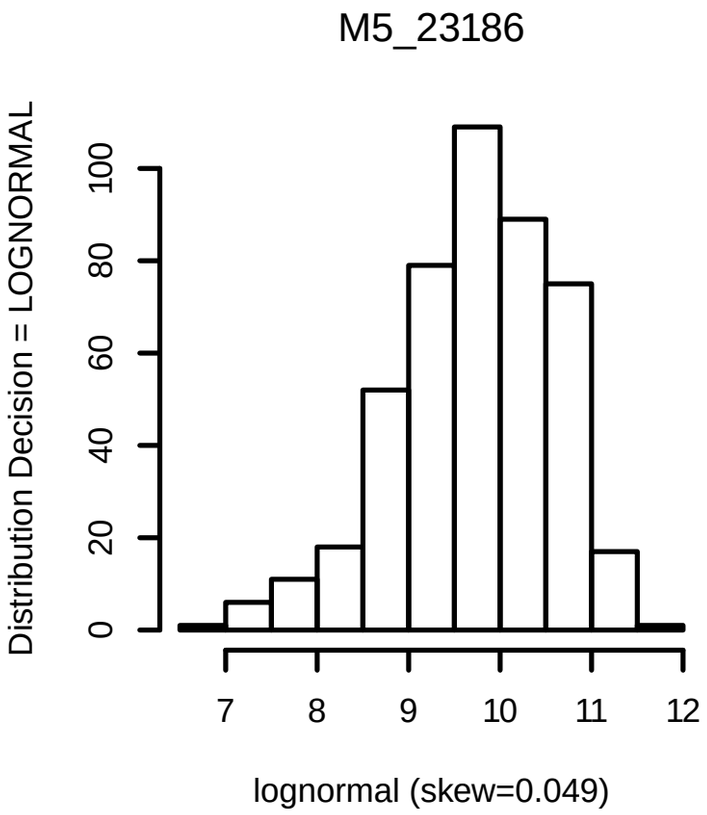

M5_46067
Distribution Decision = NORMAL
0
20
40
60
80
100
0
20000
60000
normal (skew=0.67)

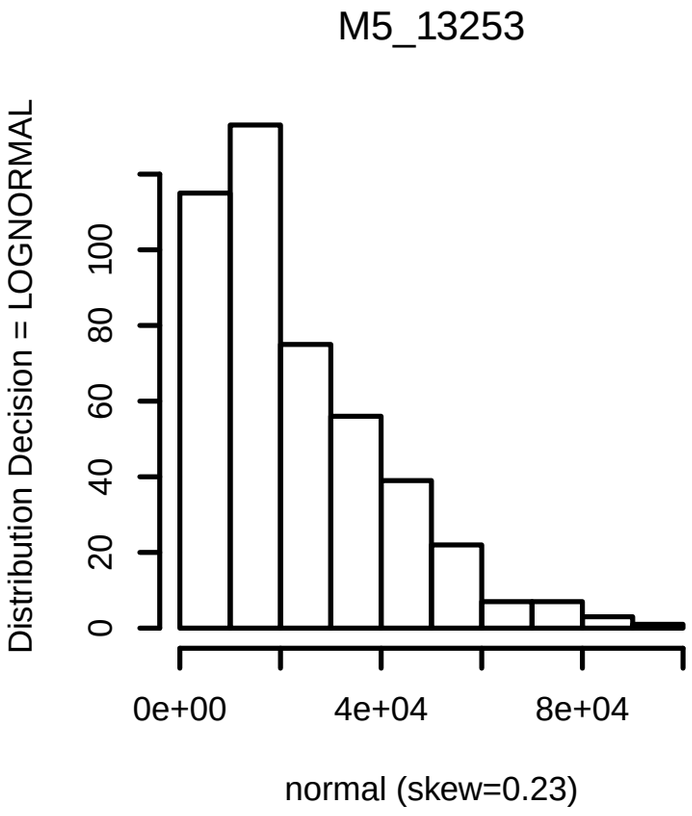

M5_46067
Distribution Decision = NORMAL
0
20
40
60
80
100
5
6
7
8
9
10
11
lognormal (skew=16)

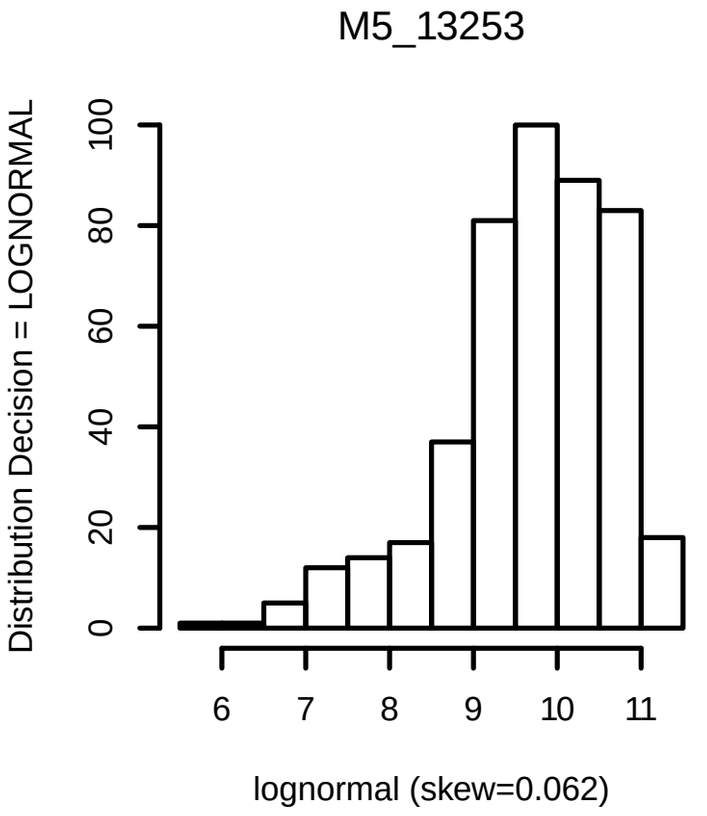

M5_11972
Distribution Decision = NORMAL
0
20
40
60
80
100
0
20000
40000
60000
normal (skew=0.3)

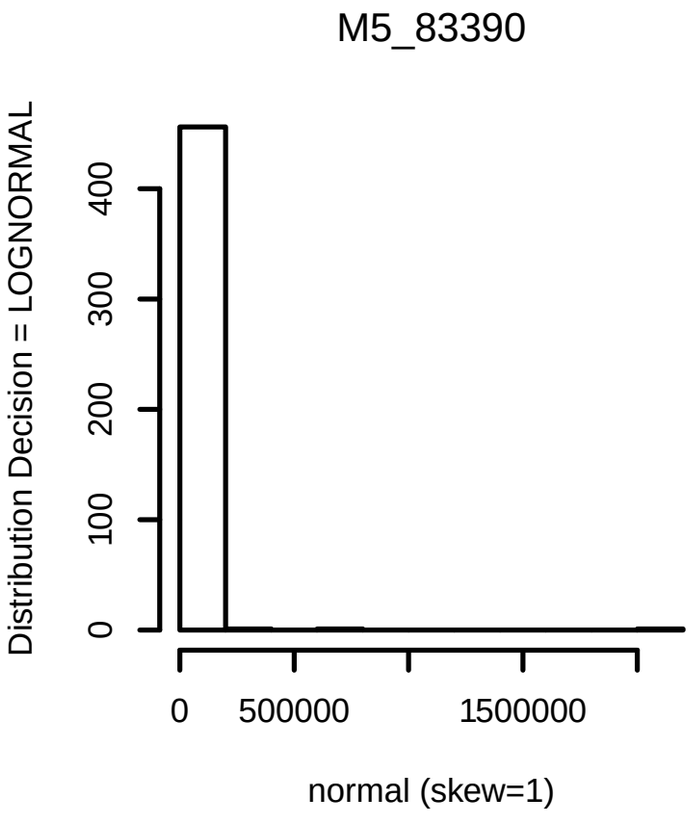

M5_11972
Distribution Decision = NORMAL
0
50
100
150
6
7
8
9
10
11
lognormal (skew=0.83)

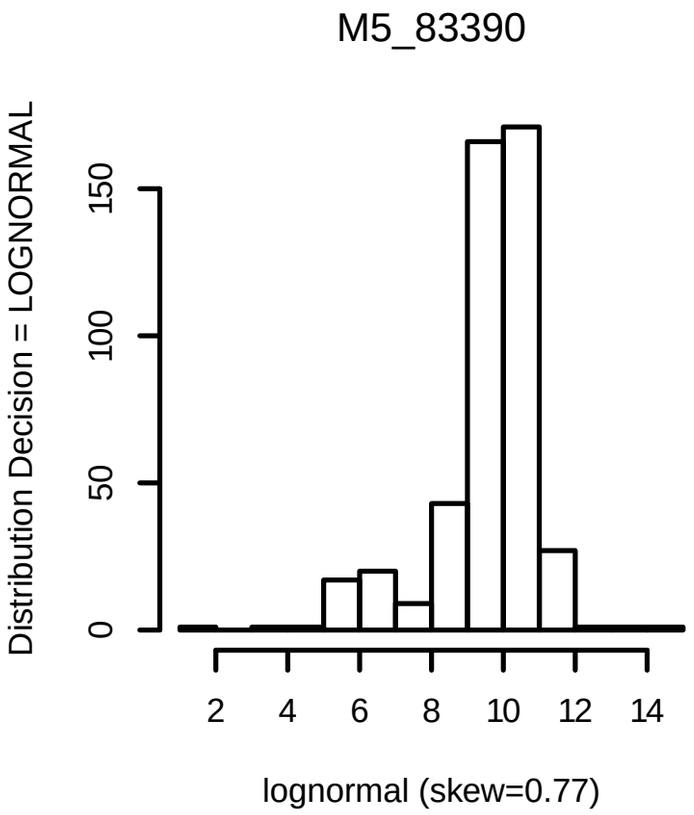

M5_23186
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0e+00
4e+04
8e+04
normal (skew=0.44)

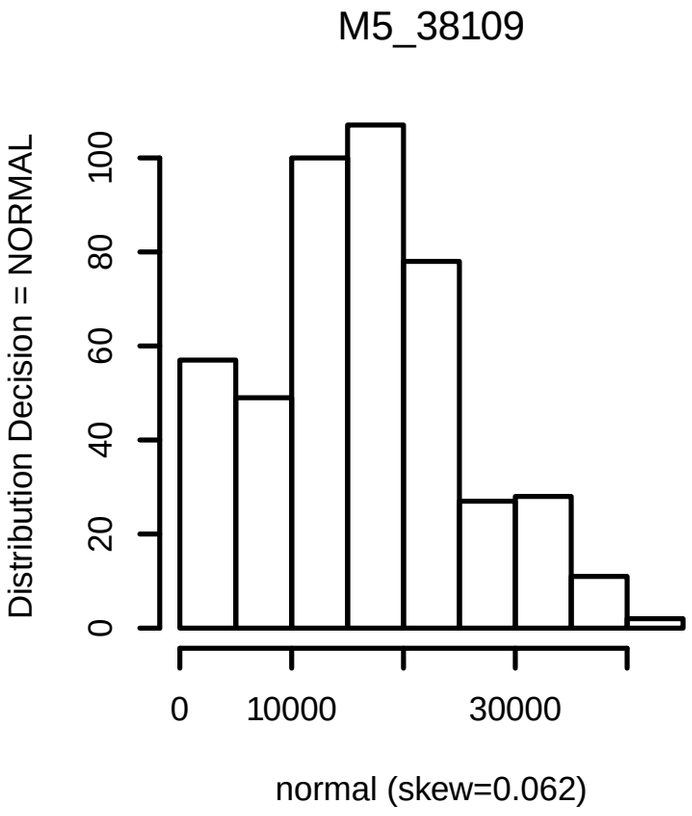

M5_23186
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
7
8
9
10
11
12
lognormal (skew=0.049)

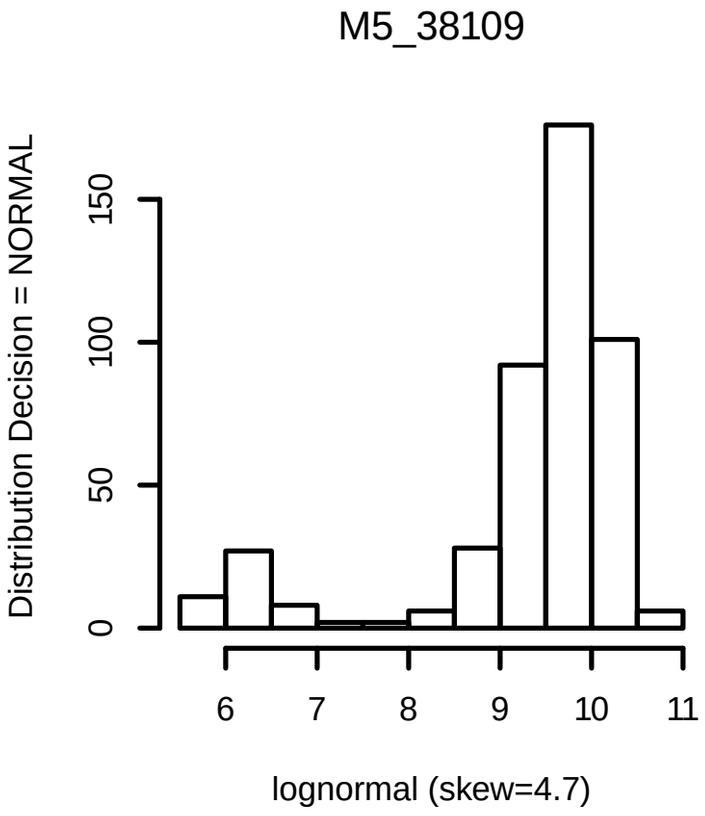

M5_13253
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0e+00
4e+04
8e+04
normal (skew=0.23)

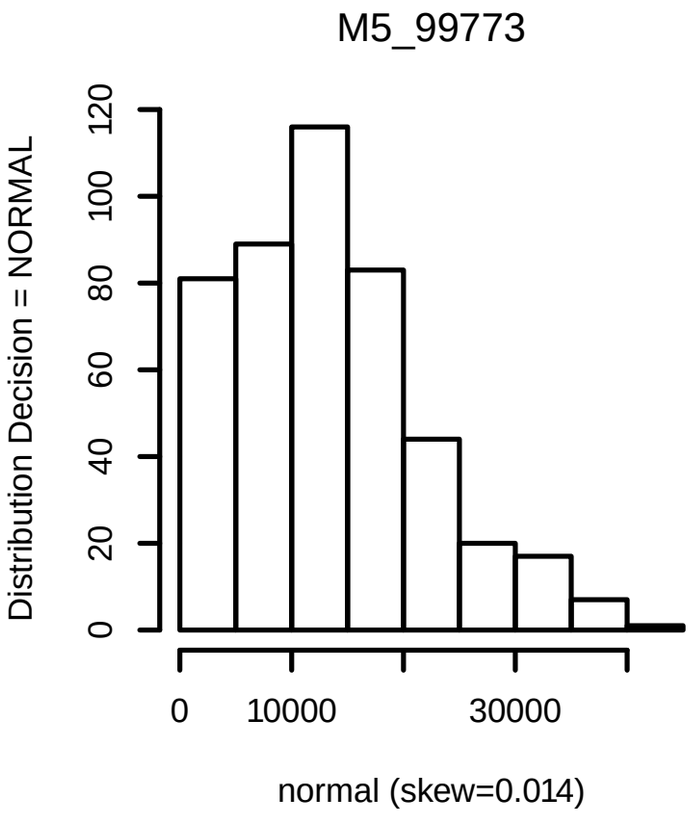

M5_13253
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
11
lognormal (skew=0.062)

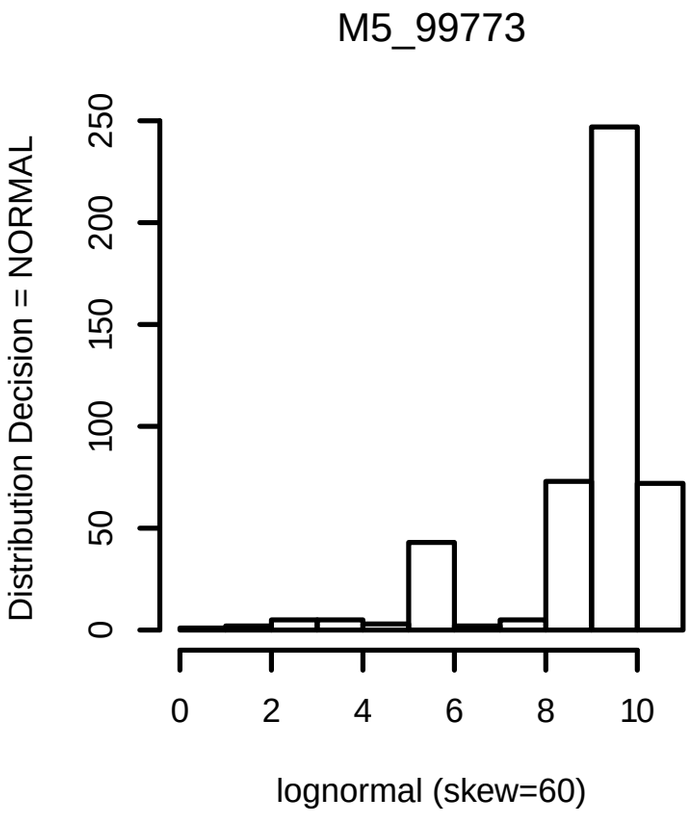

M5_83390
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
500000
1500000
normal (skew=1)

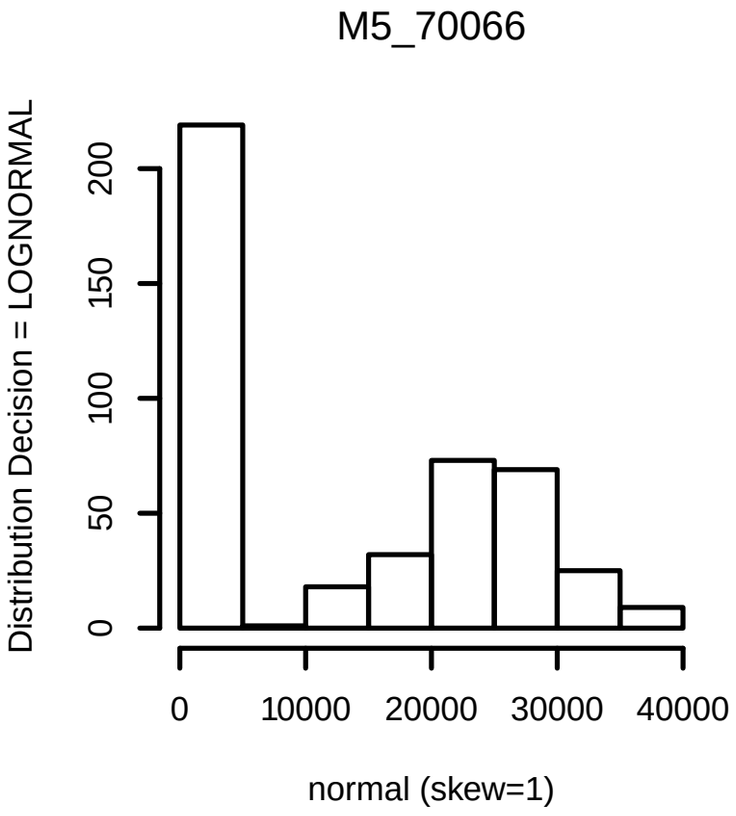

M5_83390
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
12
14
lognormal (skew=0.77)

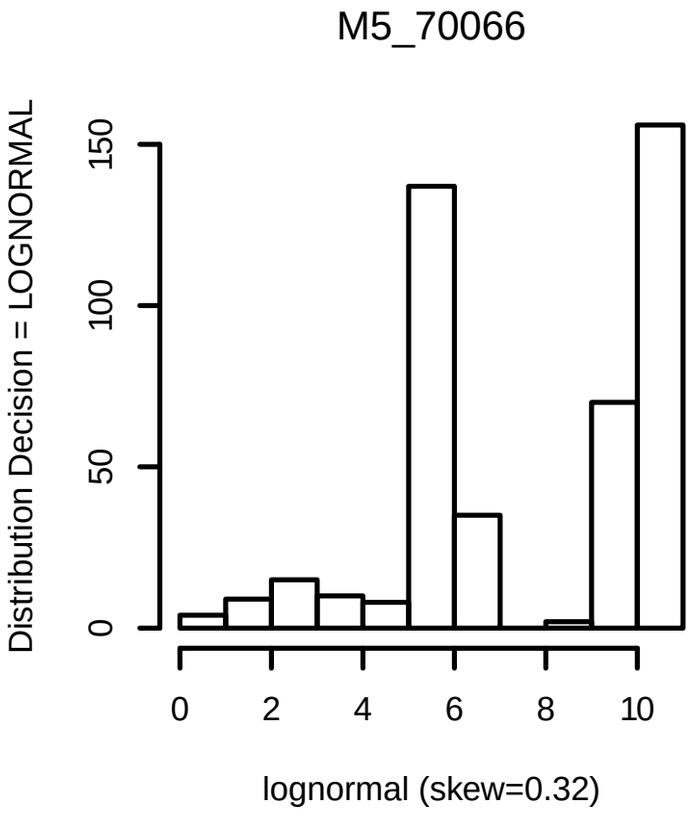

M5_38109
Distribution Decision = NORMAL
0
20
40
60
80
100
0
10000
30000
normal (skew=0.062)

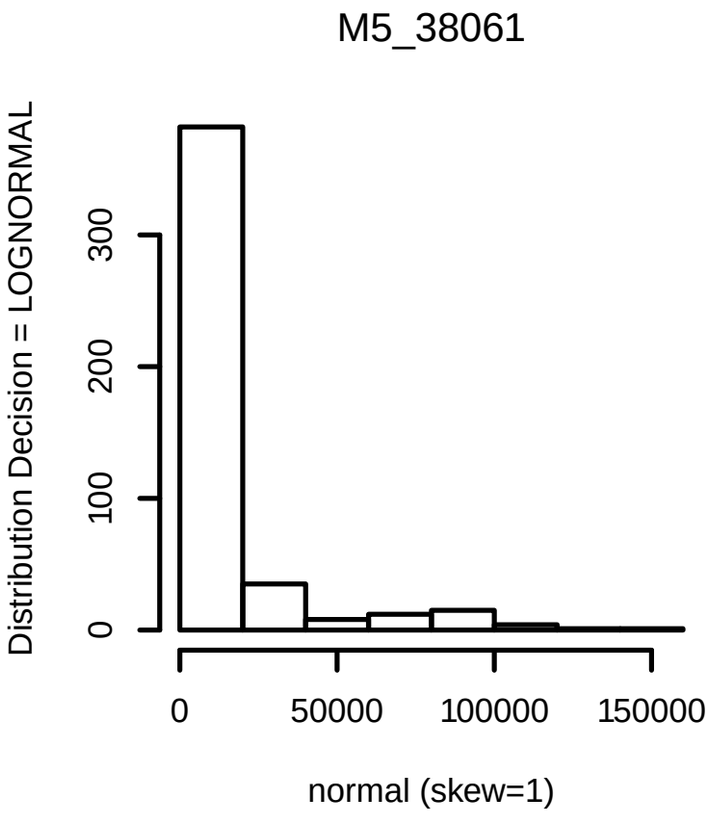

M5_38109
Distribution Decision = NORMAL
0
50
100
150
6
7
8
9
10
11
lognormal (skew=4.7)

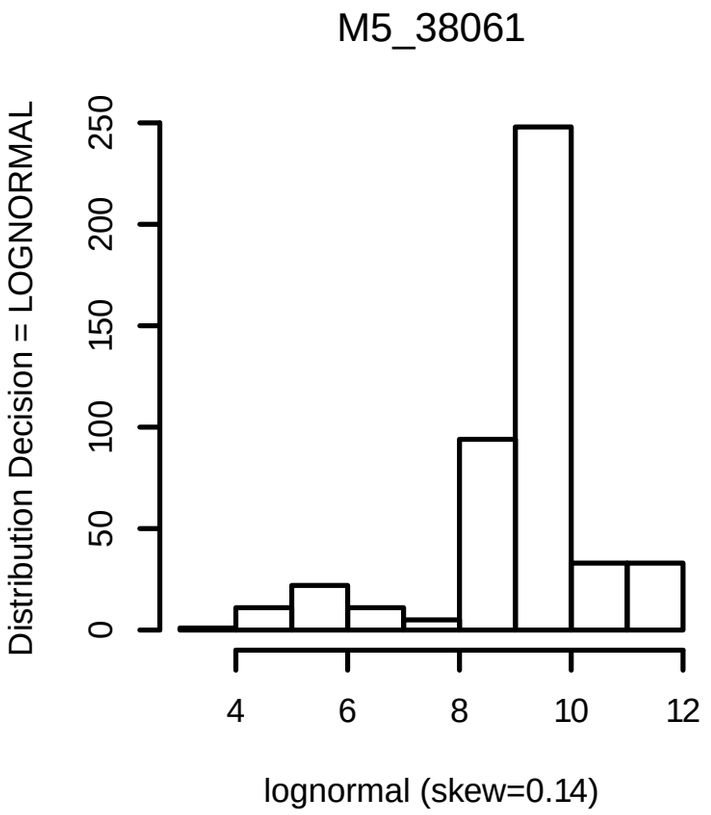

M5_99773
Distribution Decision = NORMAL
0
20
40
60
80
100
120
0
10000
30000
normal (skew=0.014)

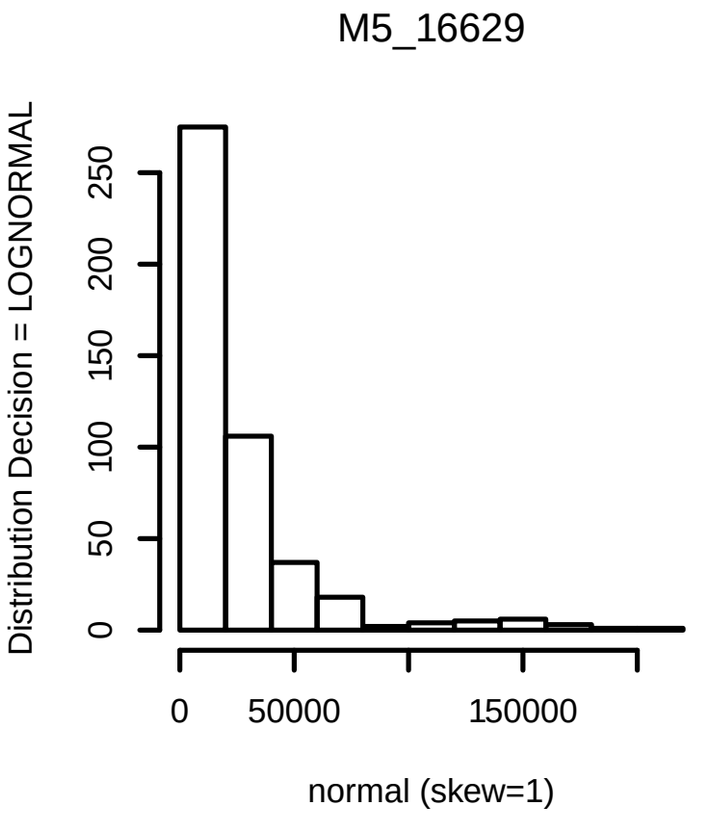

M5_99773
Distribution Decision = NORMAL
0
50
100
150
200
250
0
2
4
6
8
10
lognormal (skew=60)

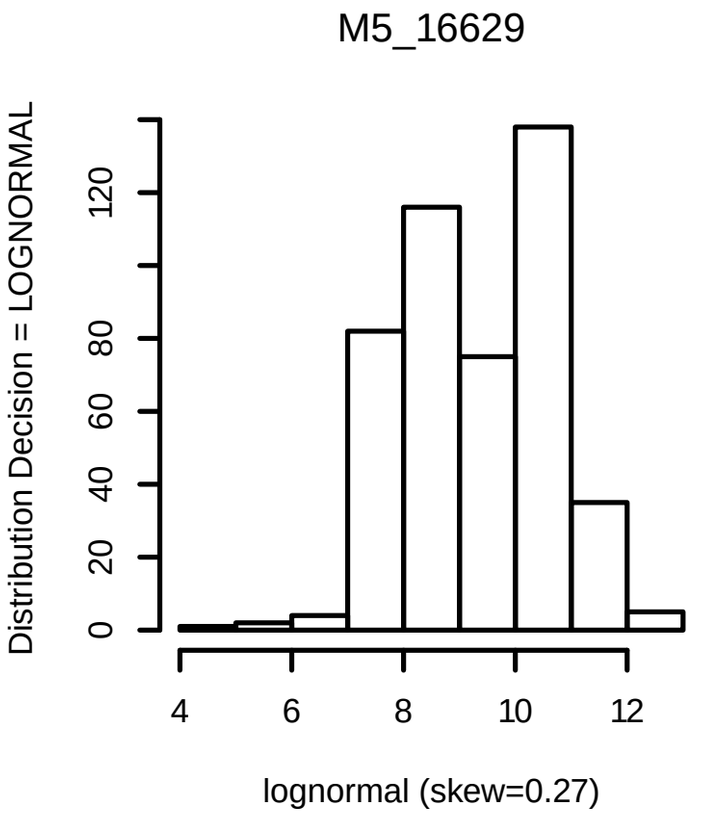

M5_70066
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
10000
20000
30000
40000
normal (skew=1)

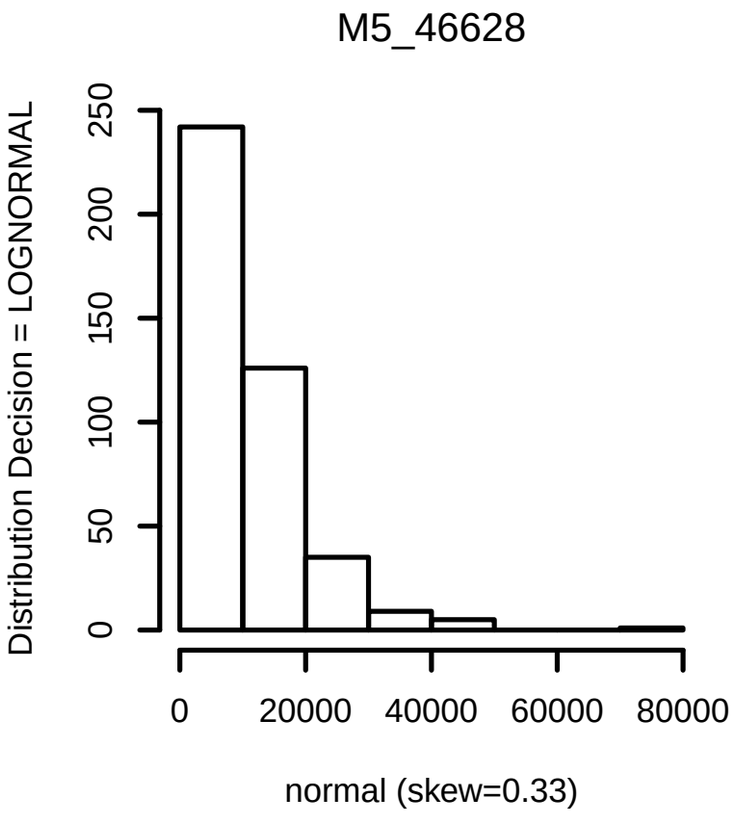

M5_70066
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
lognormal (skew=0.32)

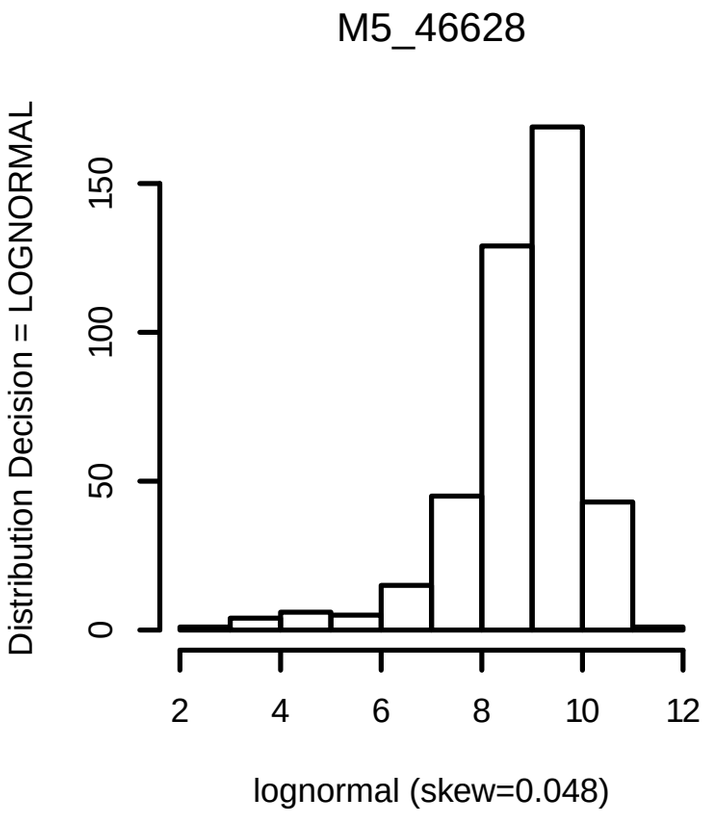

M5_38061
Distribution Decision = LOGNORMAL
0
100
200
300
0
50000
100000
150000
normal (skew=1)

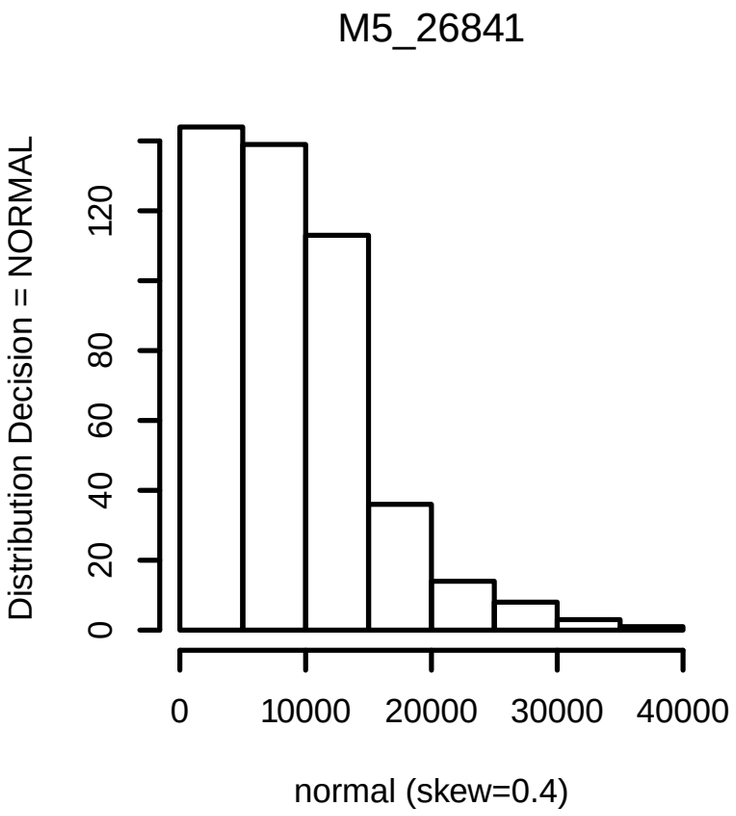

M5_38061
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
4
6
8
10
12
lognormal (skew=0.14)

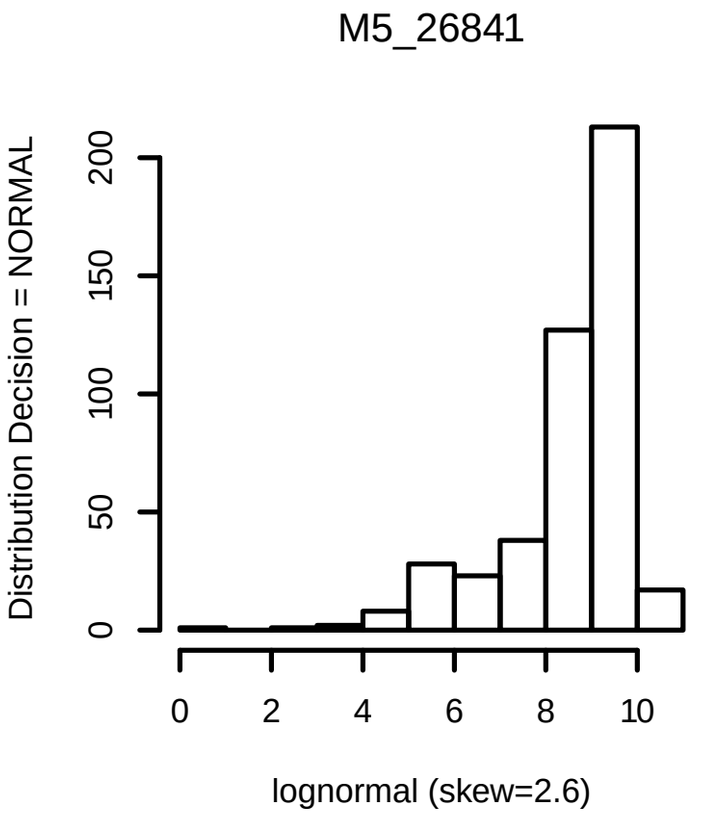

M5_16629
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
50000
150000
normal (skew=1)

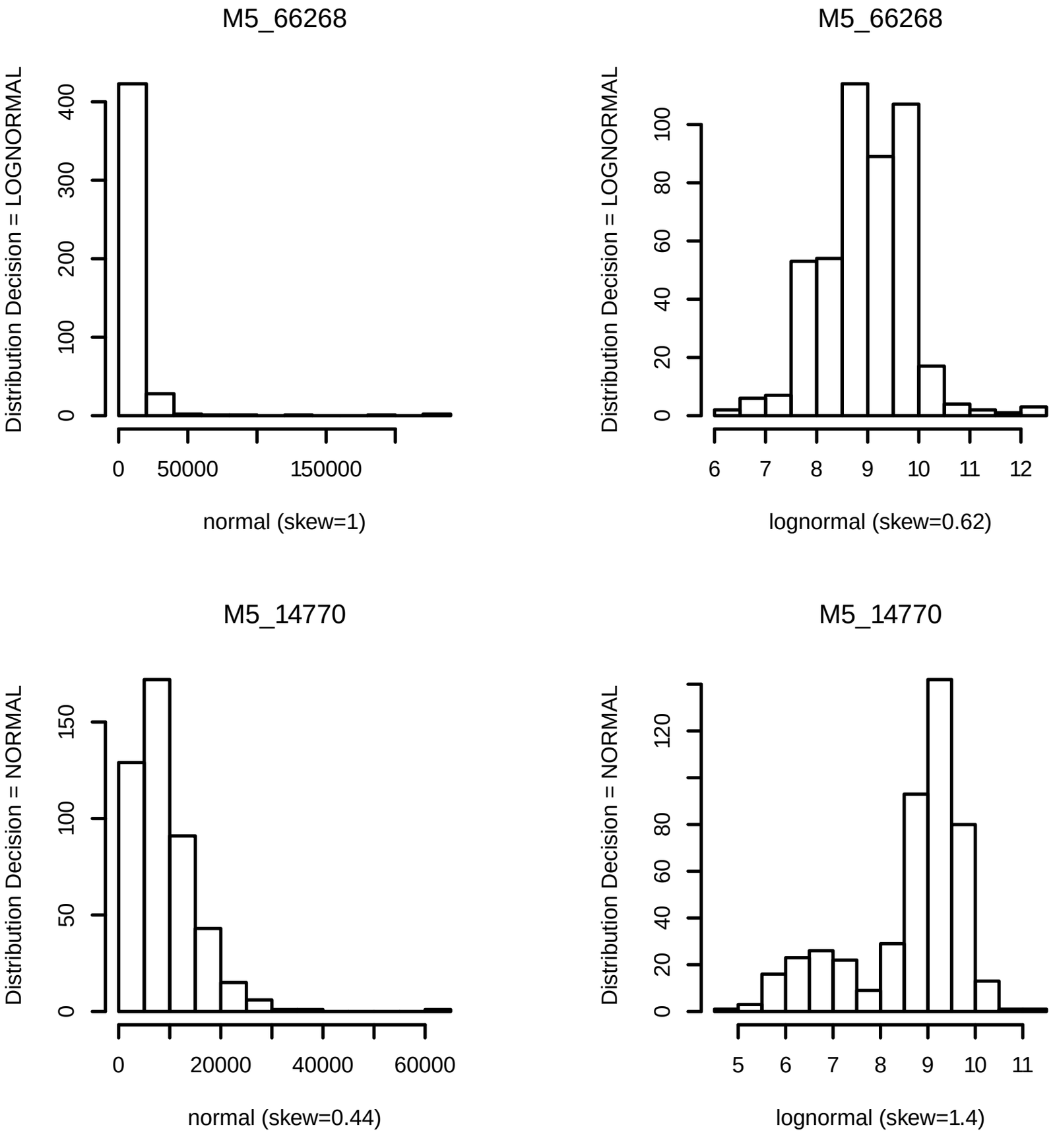

M5_16629
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
4
6
8
10
12
lognormal (skew=0.27)

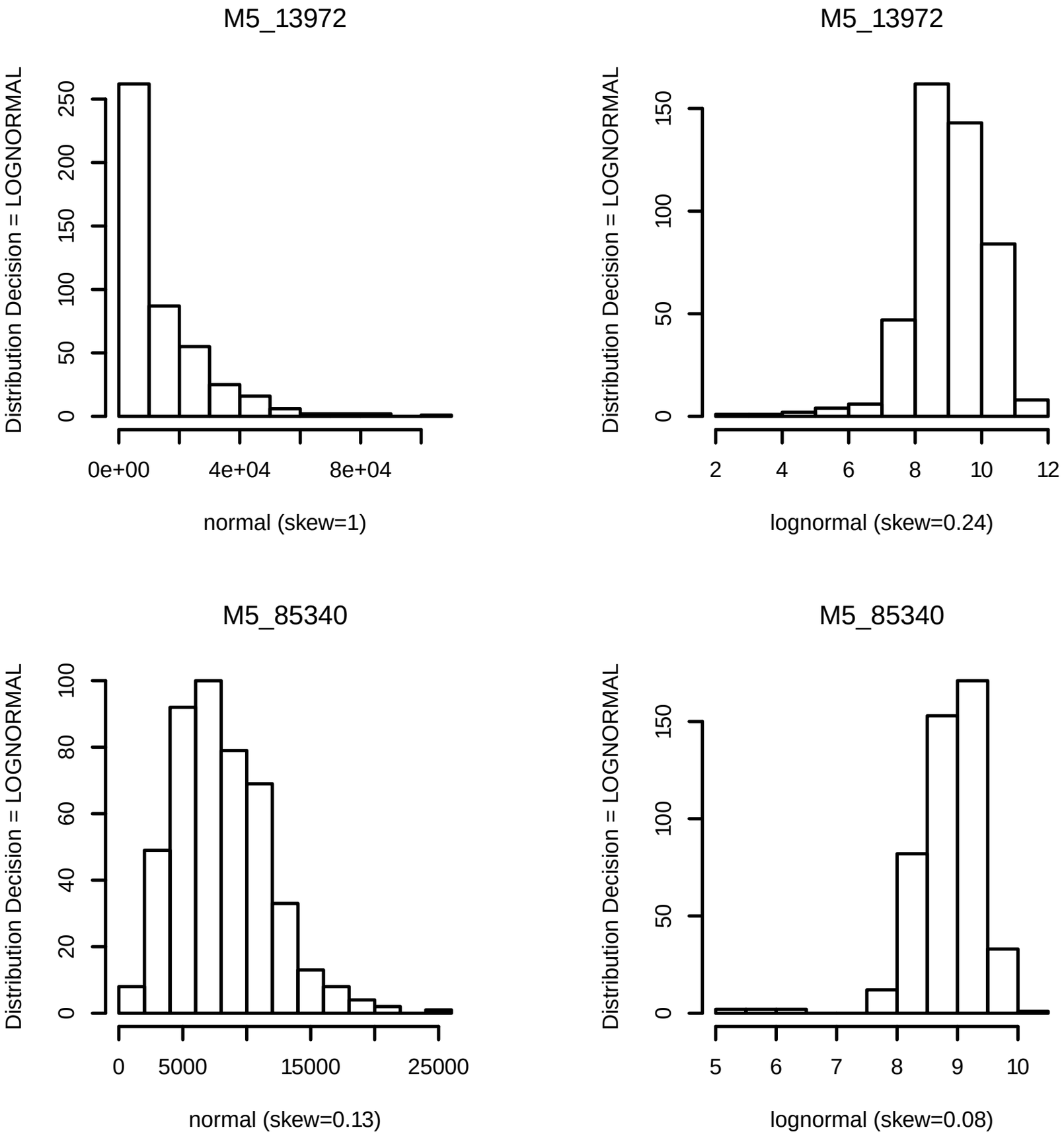

M5_46628
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
20000
40000
60000
80000
normal (skew=0.33)

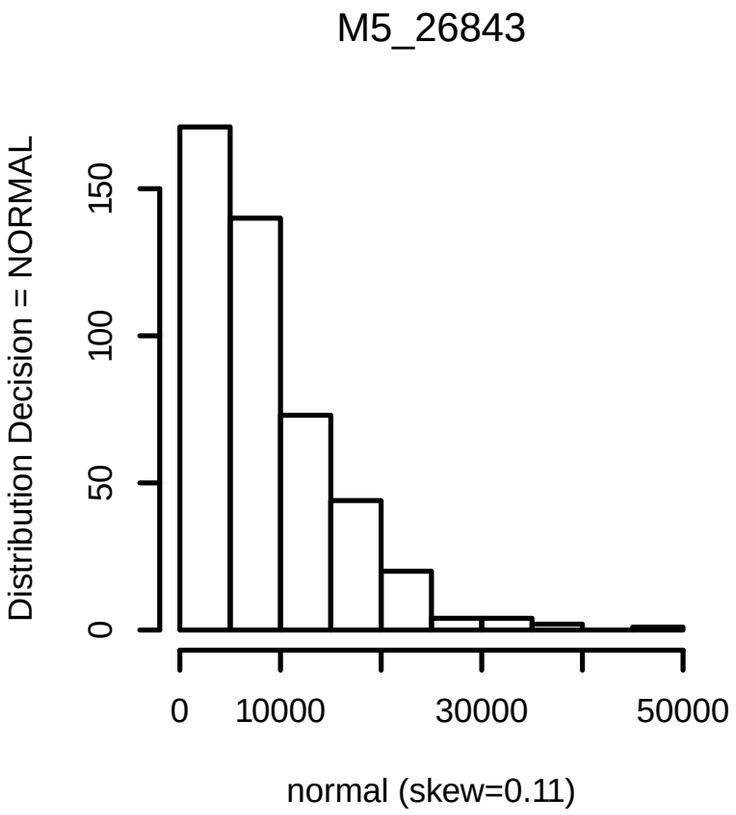

M5_46628
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
12
lognormal (skew=0.048)

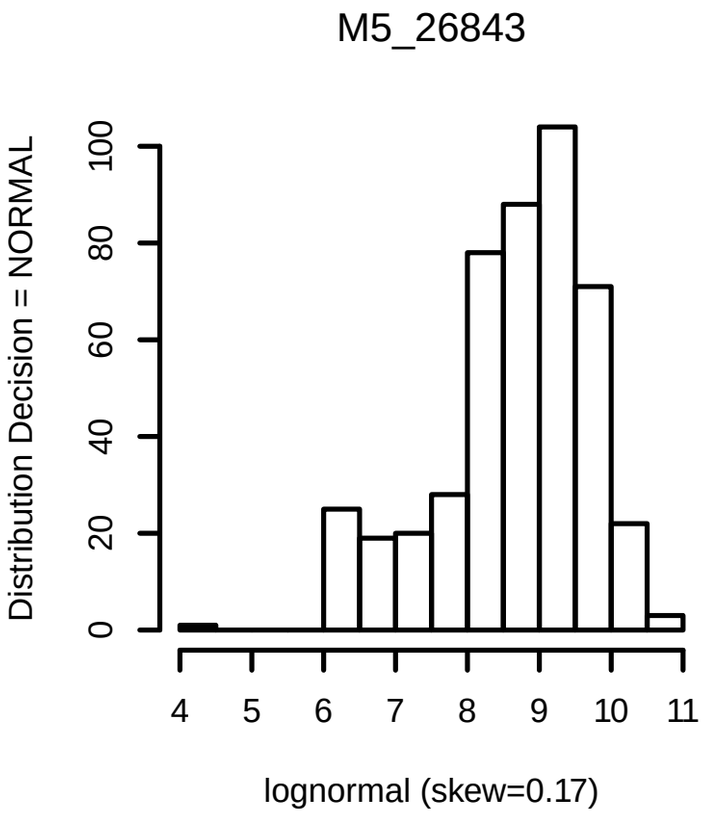

M5_26841
Distribution Decision = NORMAL
0
20
40
60
80
120
0
10000
20000
30000
40000
normal (skew=0.4)

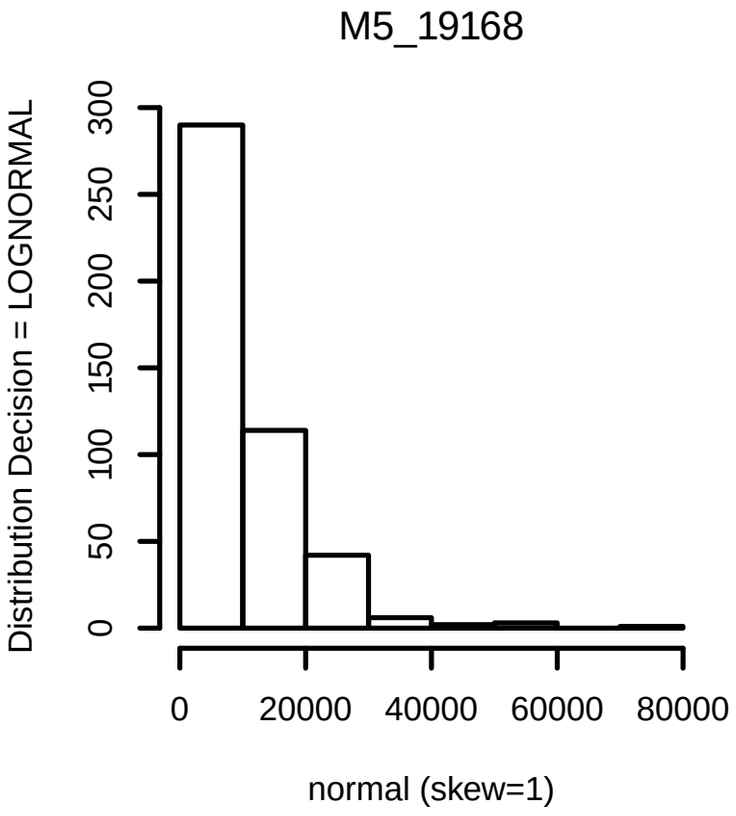

M5_26841
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
10
lognormal (skew=2.6)

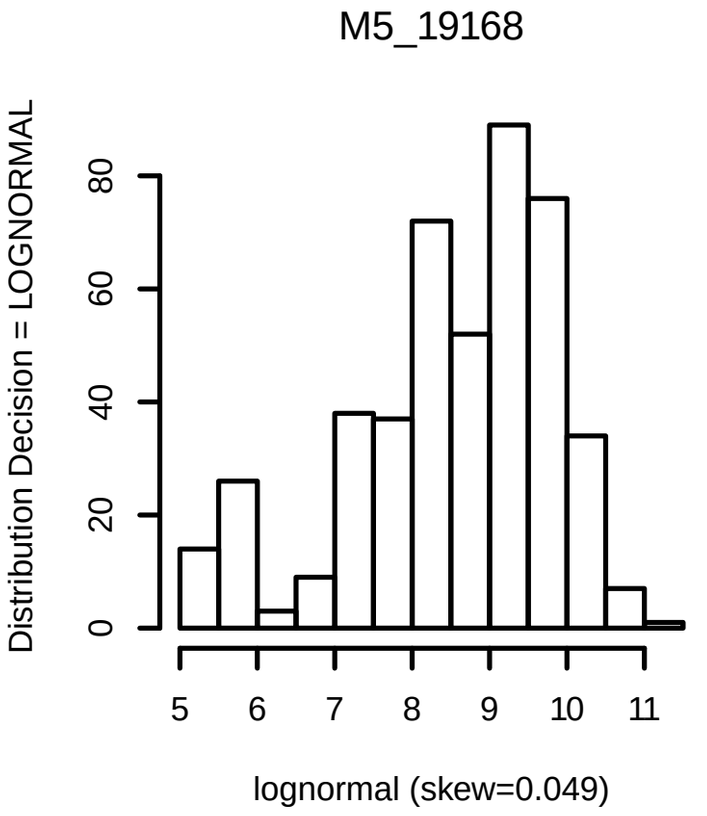

M5_66268
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
50000
150000
normal (skew=1)
M5_66268
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
11
12
lognormal (skew=0.62)
M5_14770
Distribution Decision = NORMAL
0
50
100
150
0
20000
40000
60000
normal (skew=0.44)
M5_14770
Distribution Decision = NORMAL
0
20
40
60
80
120
5
6
7
8
9
10
11
lognormal (skew=1.4)

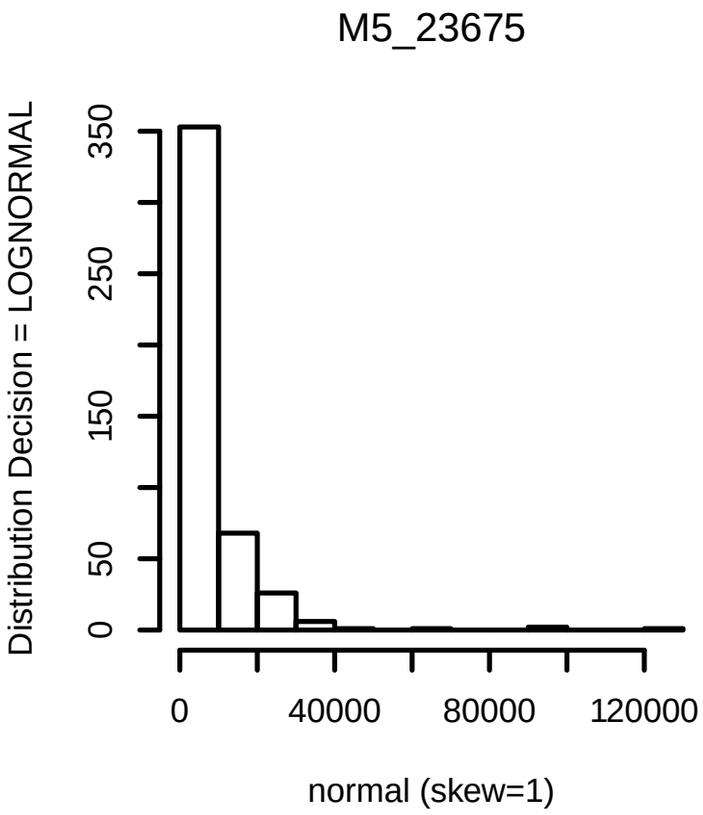

M5_13972
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0e+00
4e+04
8e+04
normal (skew=1)
M5_13972
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
12
lognormal (skew=0.24)
M5_85340
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
5000
15000
25000
normal (skew=0.13)
M5_85340
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
10
lognormal (skew=0.08)

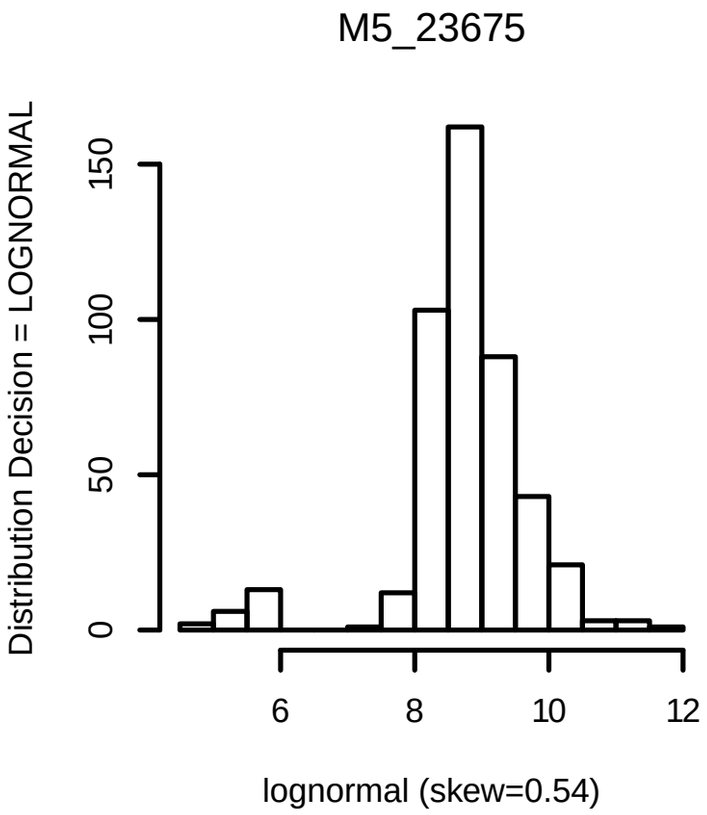

M5_26843
Distribution Decision = NORMAL
0
50
100
150
0
10000
30000
50000
normal (skew=0.11)

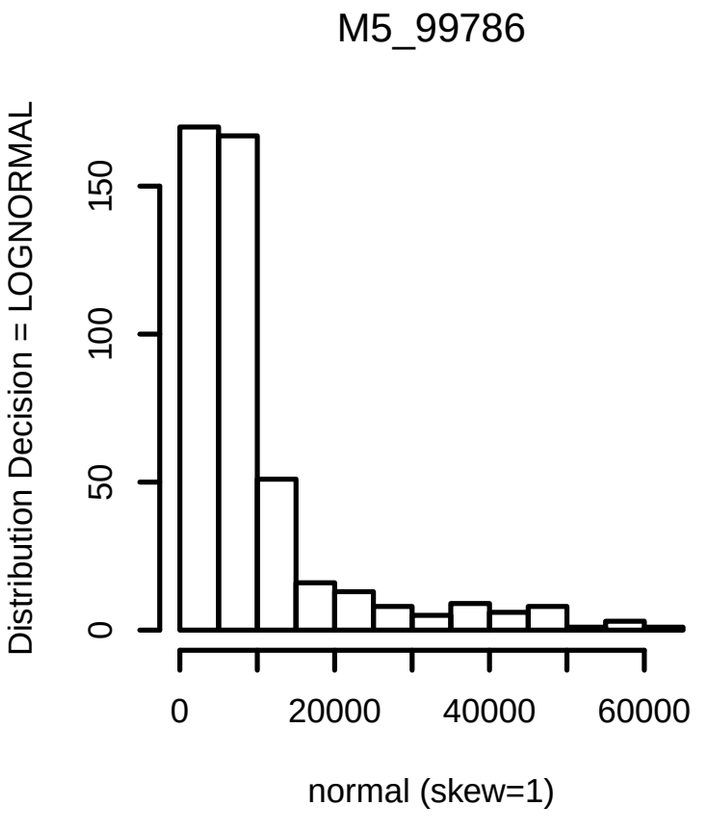

M5_26843
Distribution Decision = NORMAL
0
20
40
60
80
100
4
5
6
7
8
9
10
11
lognormal (skew=0.17)

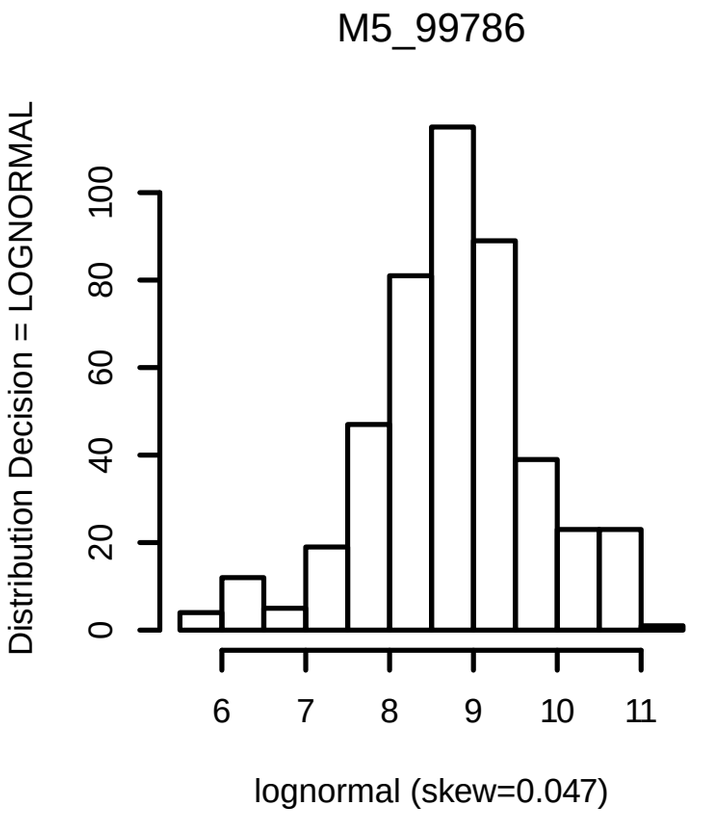

M5_19168
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
20000
40000
60000
80000
normal (skew=1)

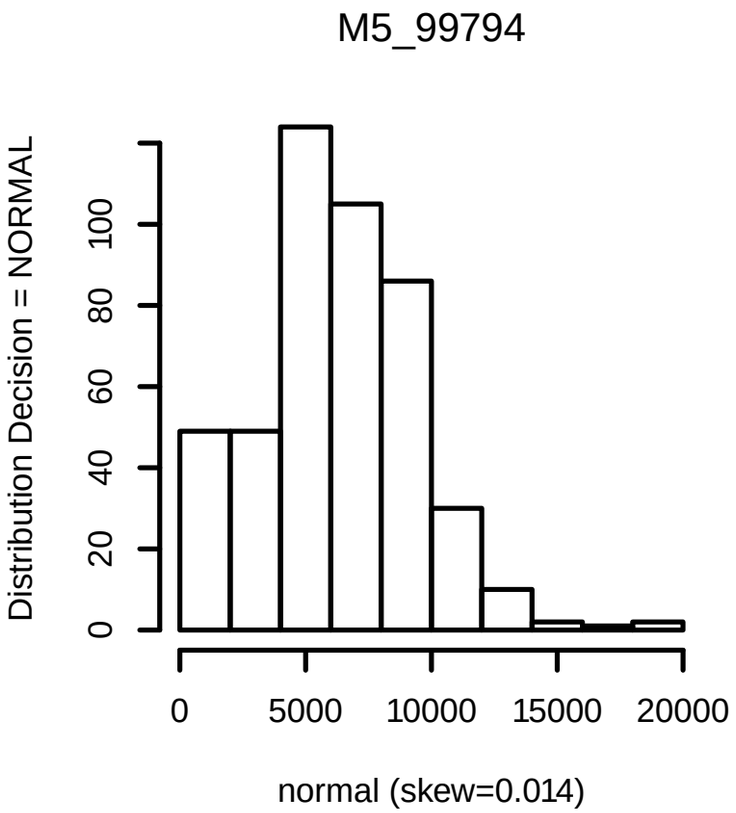

M5_19168
Distribution Decision = LOGNORMAL
0
20
40
60
80
5
6
7
8
9
10
11
lognormal (skew=0.049)

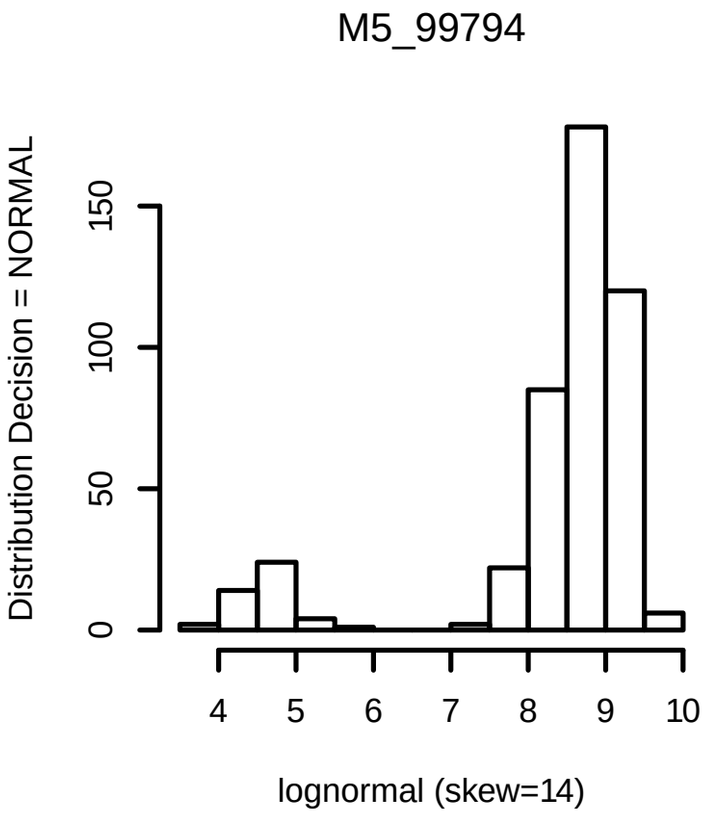

M5_23675
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
40000
80000
120000
normal (skew=1)

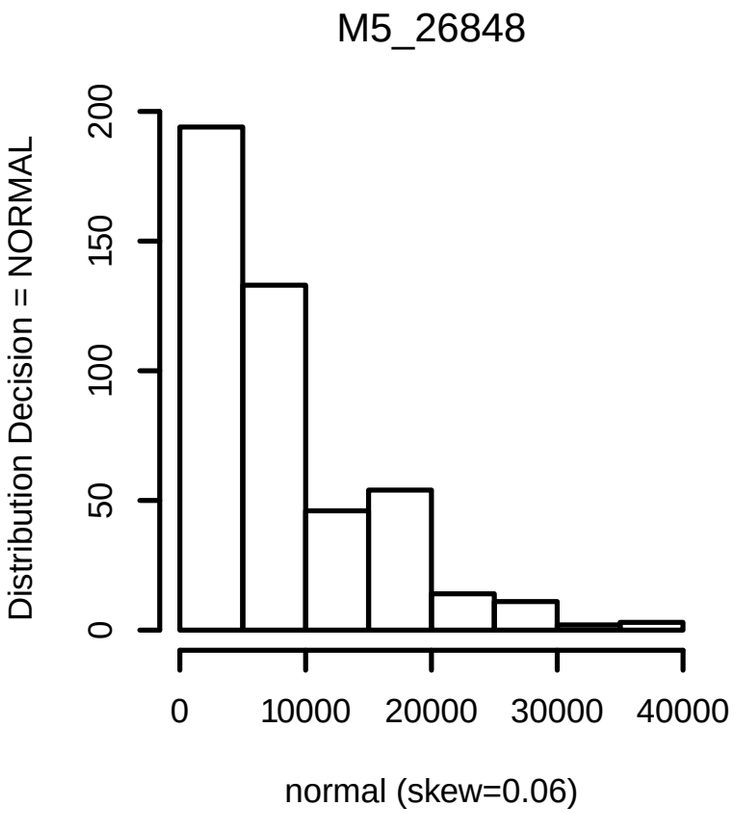

M5_23675
Distribution Decision = LOGNORMAL
0
50
100
150
6
8
10
12
lognormal (skew=0.54)

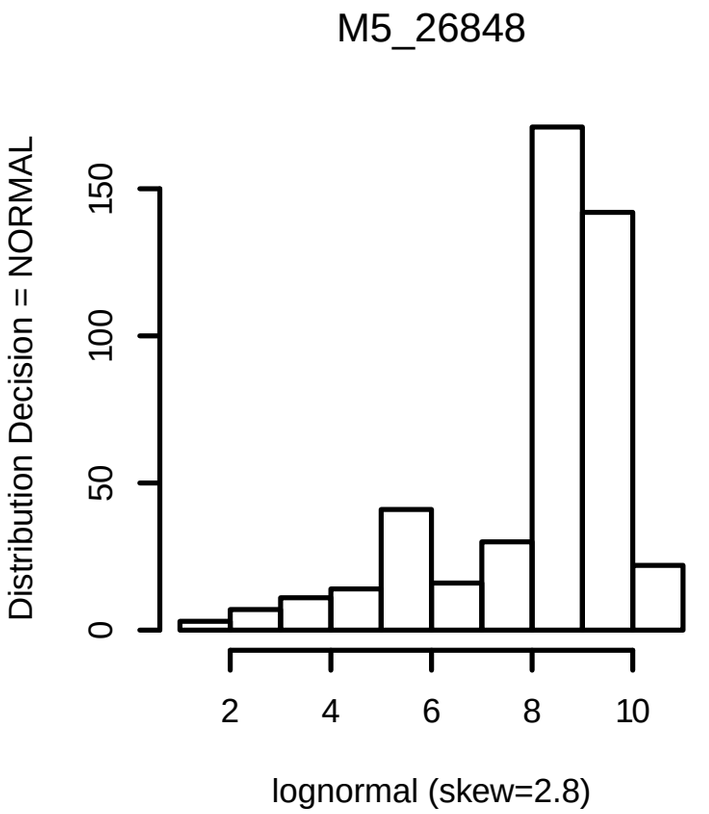

M5_99786
Distribution Decision = LOGNORMAL
0
50
100
150
0
20000
40000
60000
normal (skew=1)

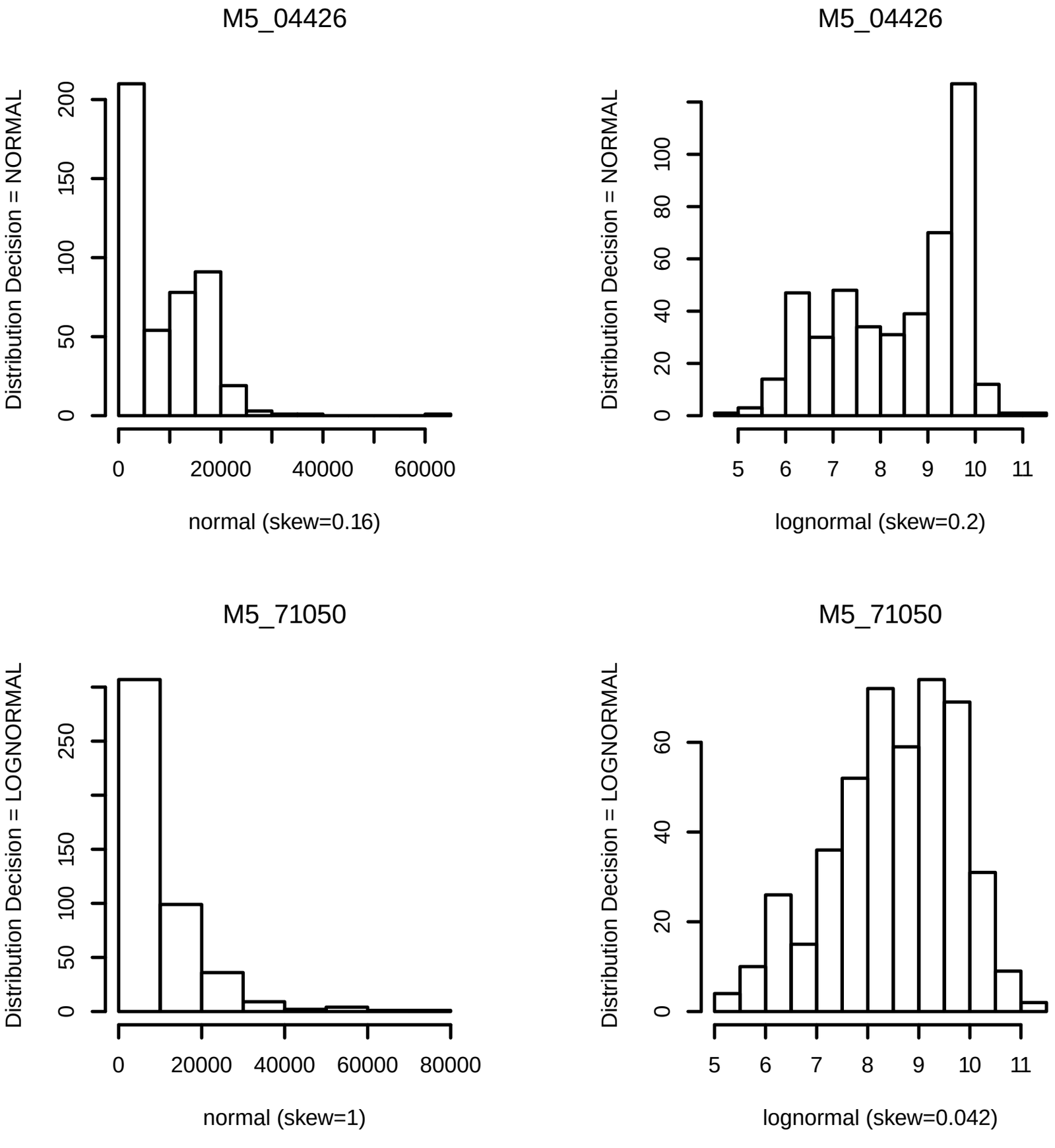

M5_99786
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
11
lognormal (skew=0.047)

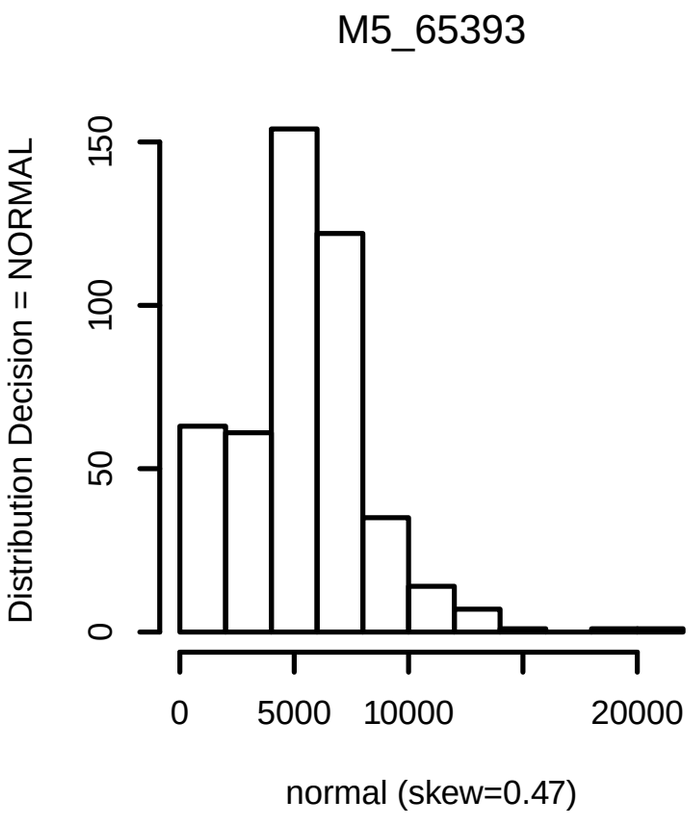

M5_99794
Distribution Decision = NORMAL
0
20
40
60
80
100
0
5000
10000
15000
20000
normal (skew=0.014)

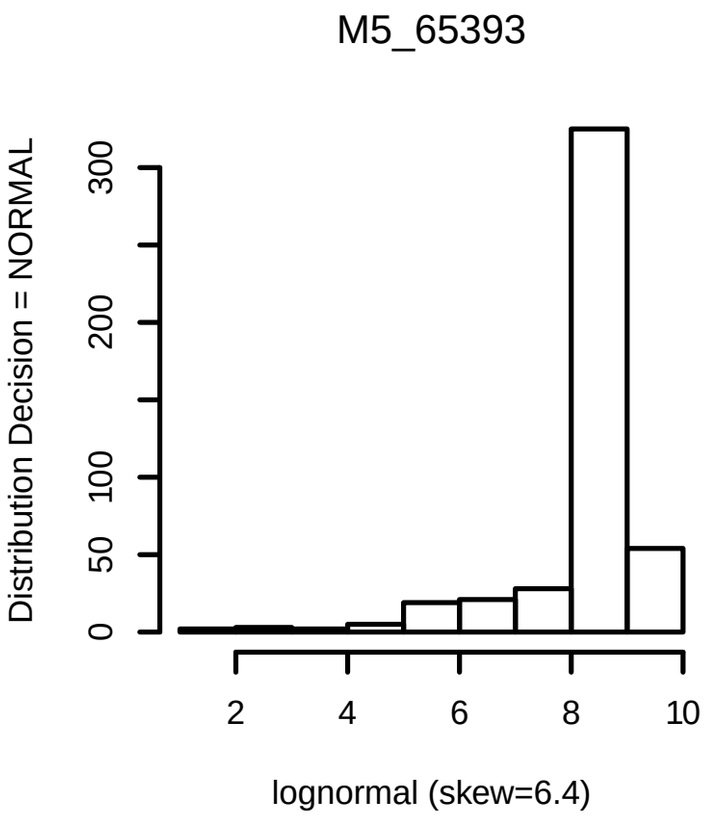

M5_99794
Distribution Decision = NORMAL
0
50
100
150
4
5
6
7
8
9
10
lognormal (skew=14)

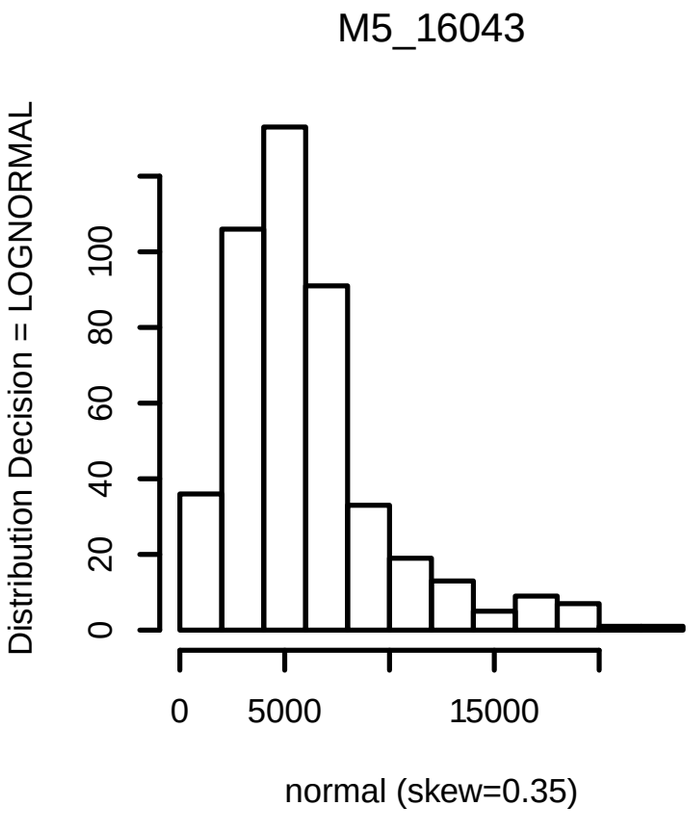

M5_26848
Distribution Decision = NORMAL
0
50
100
150
200
0
10000
20000
30000
40000
normal (skew=0.06)

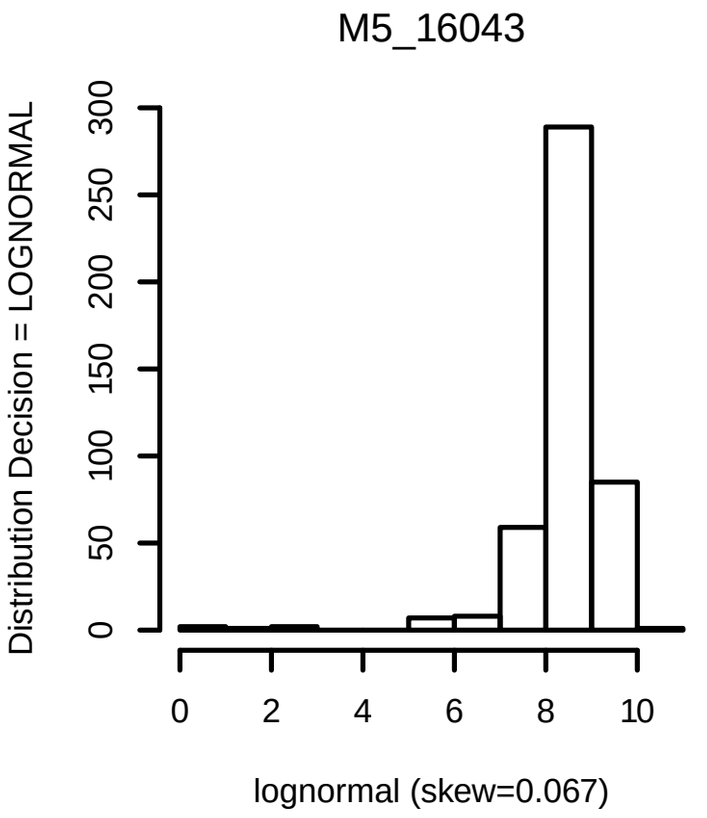

M5_26848
Distribution Decision = NORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=2.8)

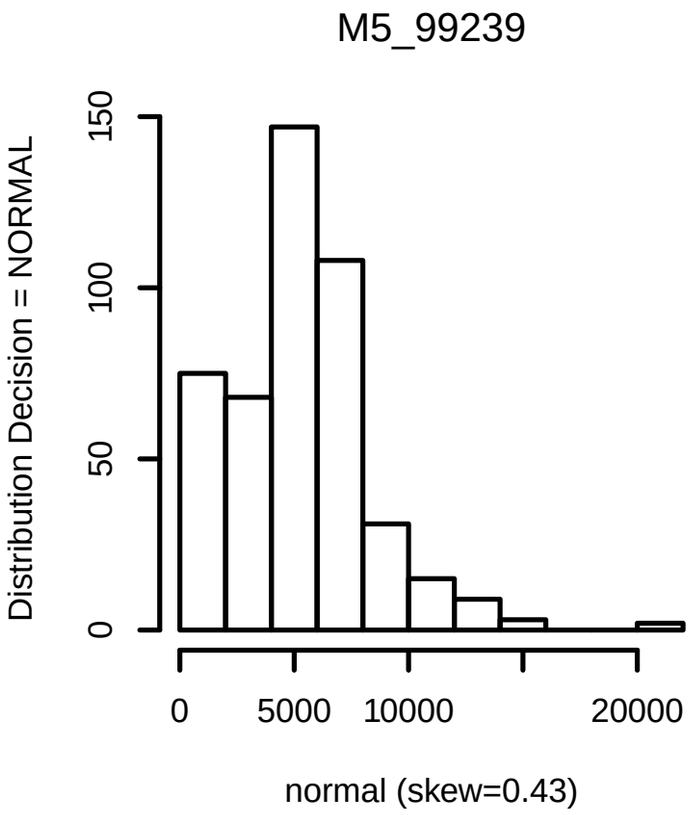

M5_04426
Distribution Decision = NORMAL
0
50
100
150
200
0
20000
40000
60000
normal (skew=0.16)
M5_04426
Distribution Decision = NORMAL
0
20
40
60
80
100
5
6
7
8
9
10
11
lognormal (skew=0.2)
M5_71050
Distribution Decision = LOGNORMAL
0
50
100
150
250
0
20000
40000
60000
80000
normal (skew=1)
M5_71050
Distribution Decision = LOGNORMAL
0
20
40
60
5
6
7
8
9
10
11
lognormal (skew=0.042)

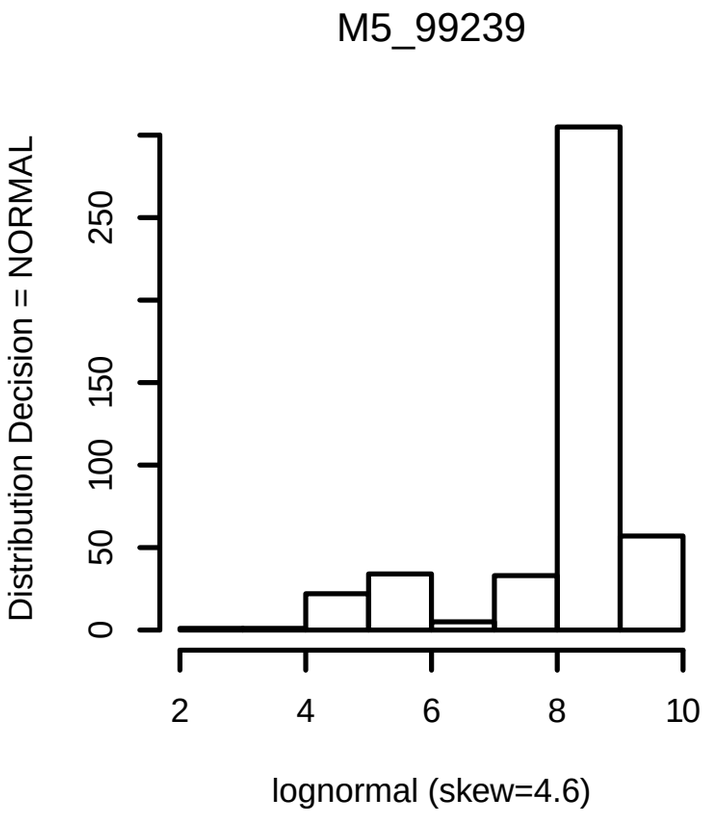

M5_65393
Distribution Decision = NORMAL
0
50
100
150
0
5000
10000
20000
normal (skew=0.47)

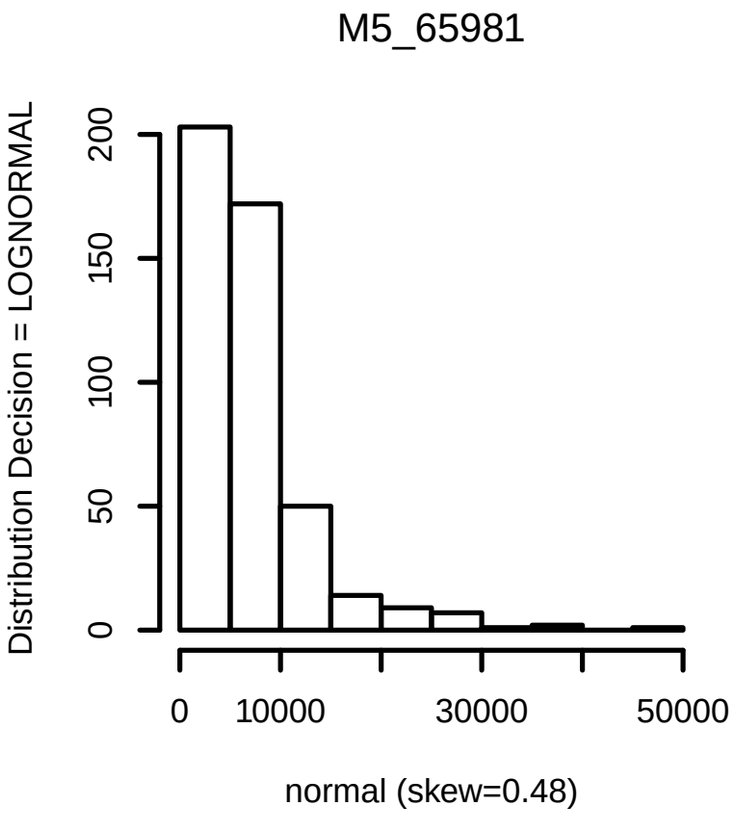

M5_65393
Distribution Decision = NORMAL
0
50
100
200
300
2
4
6
8
10
lognormal (skew=6.4)

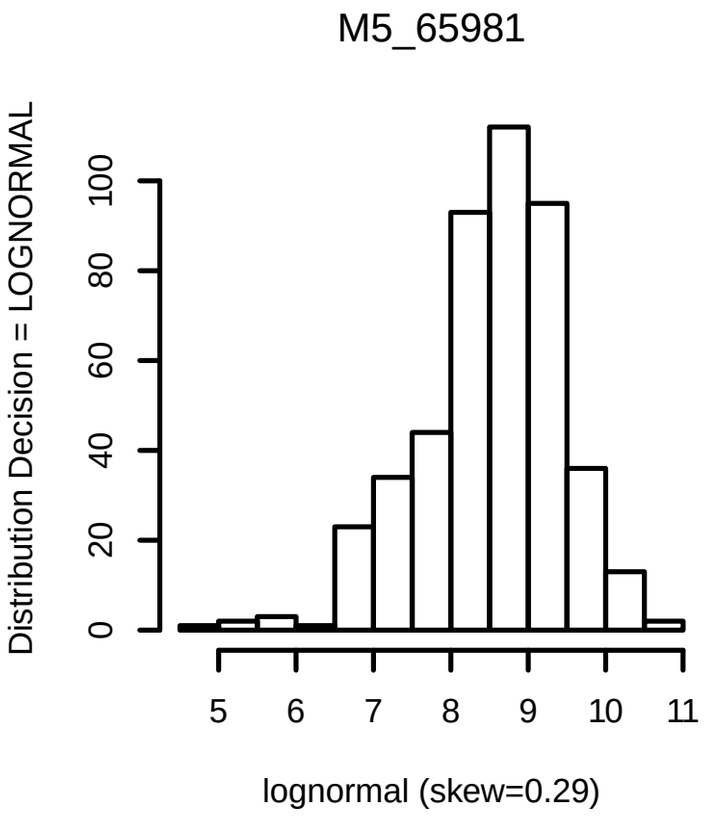

M5_16043
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
5000
15000
normal (skew=0.35)

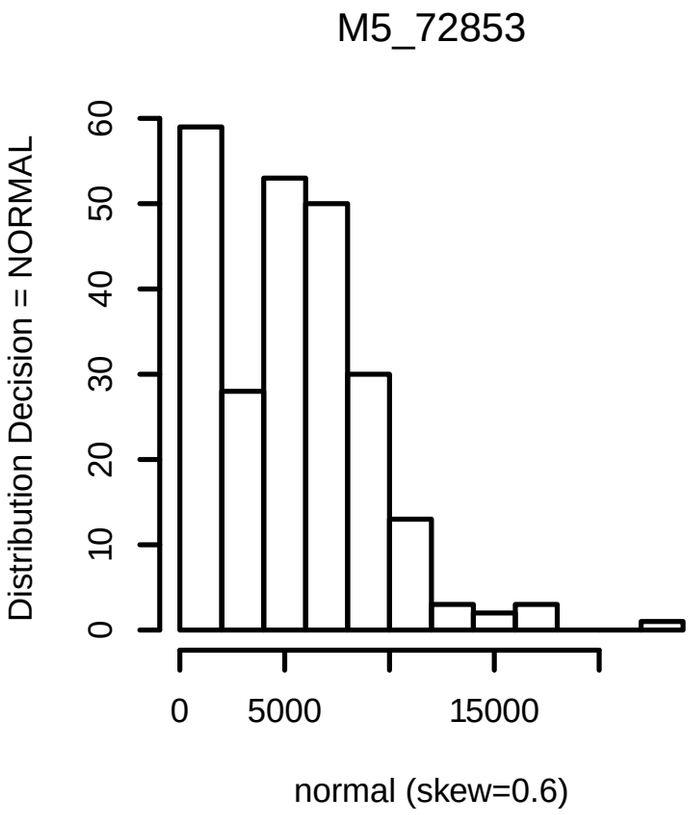

M5_16043
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
2
4
6
8
10
lognormal (skew=0.067)

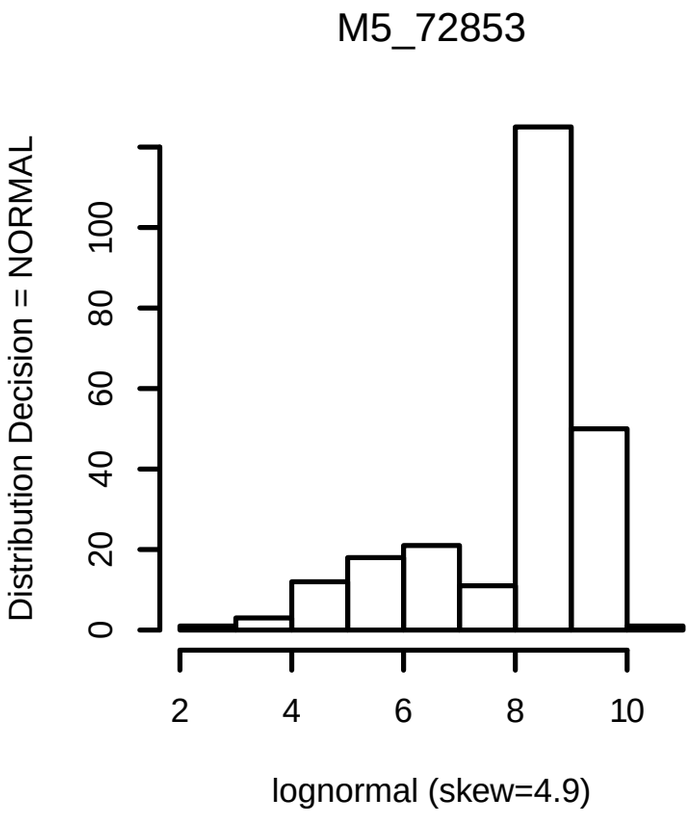

M5_99239
Distribution Decision = NORMAL
0
50
100
150
0
5000
10000
20000
normal (skew=0.43)

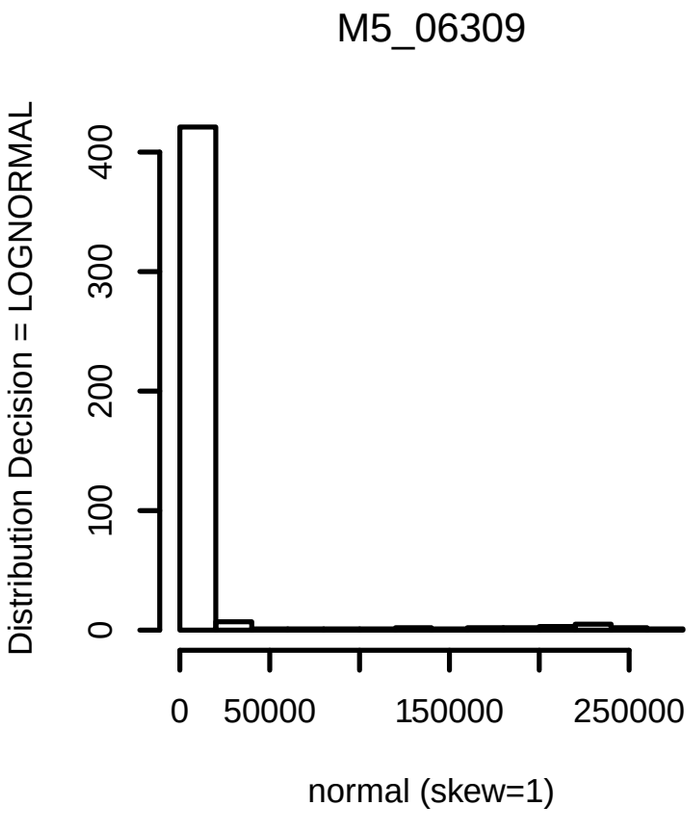

M5_99239
Distribution Decision = NORMAL
0
50
100
150
250
2
4
6
8
10
lognormal (skew=4.6)

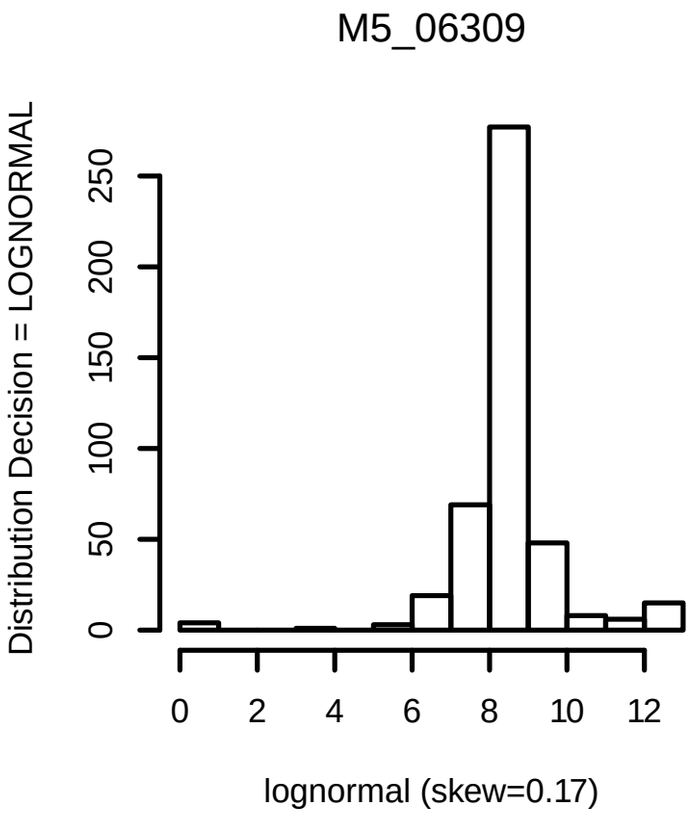

M5_65981
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
10000
30000
50000
normal (skew=0.48)

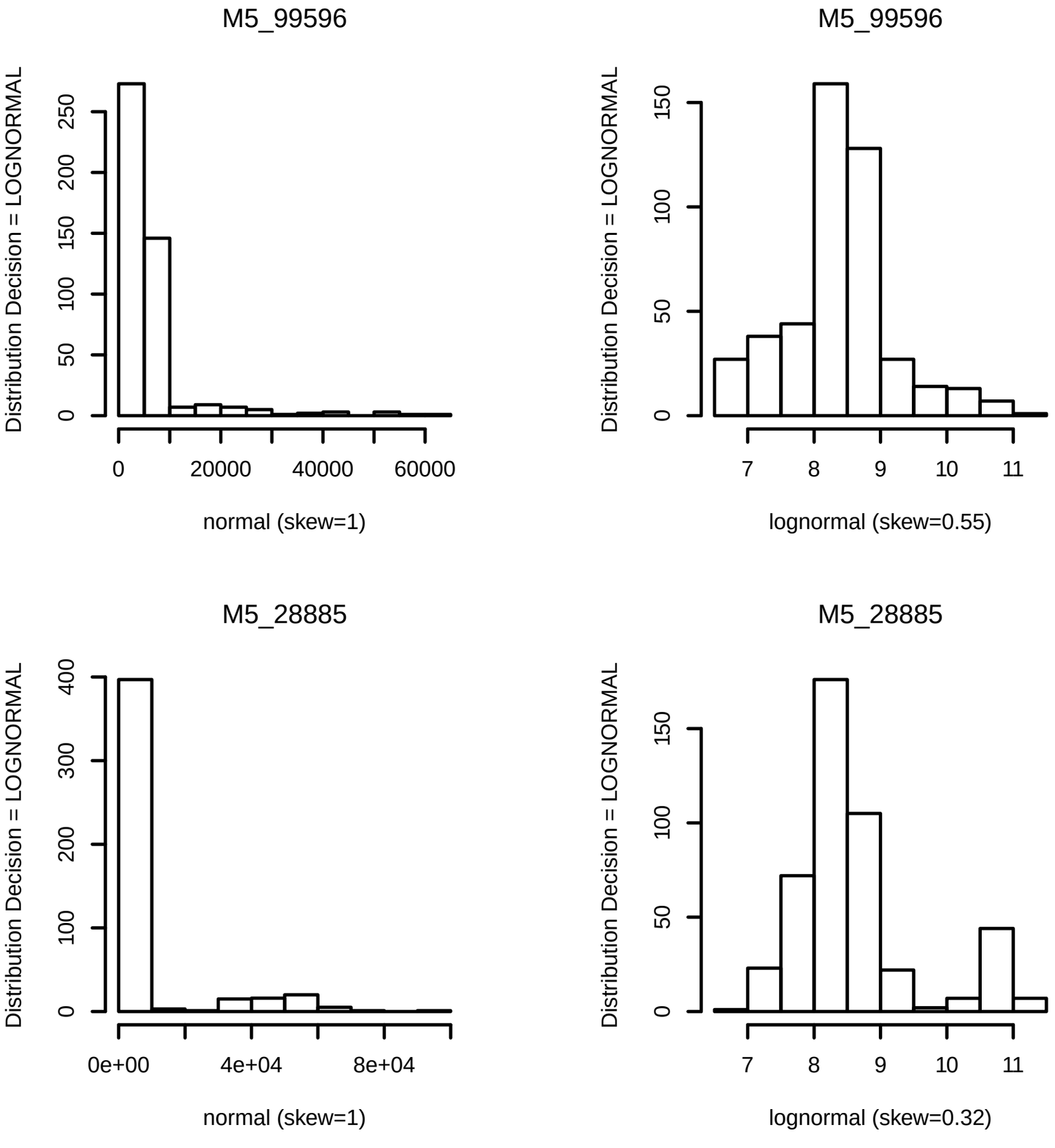

M5_65981
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
5
6
7
8
9
10
11
lognormal (skew=0.29)

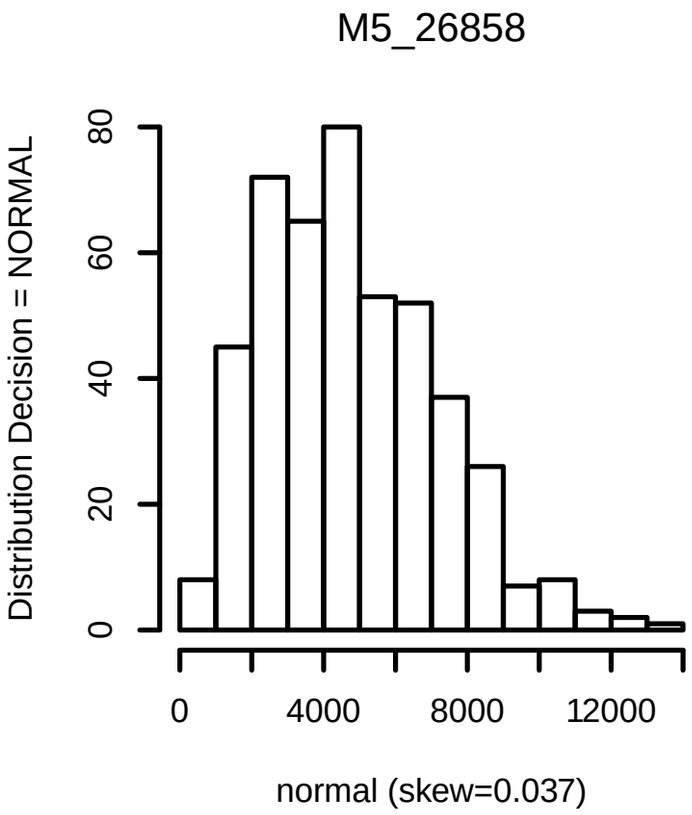

M5_72853
Distribution Decision = NORMAL
0
10
20
30
40
50
60
0
5000
15000
normal (skew=0.6)

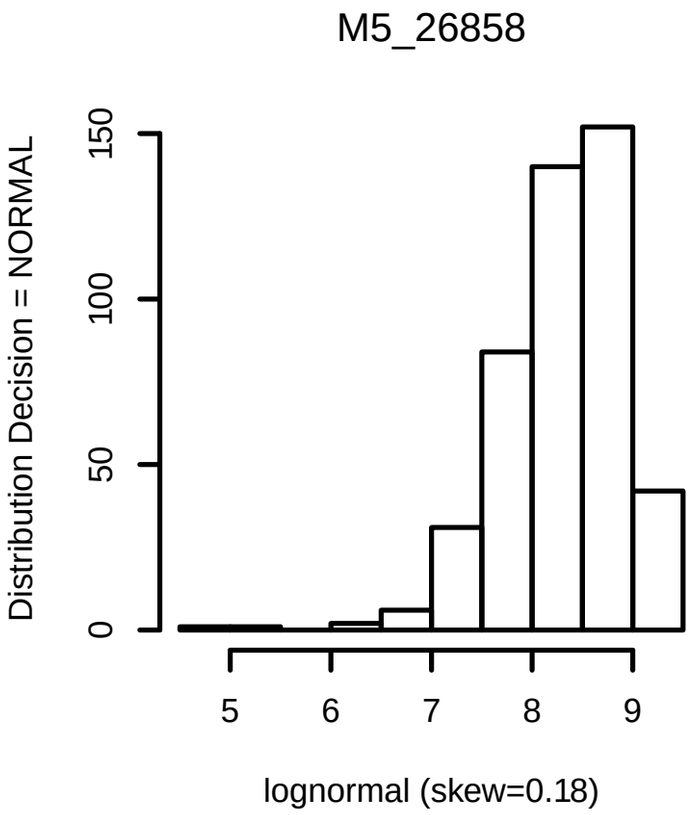

M5_72853
Distribution Decision = NORMAL
0
20
40
60
80
100
2
4
6
8
10
lognormal (skew=4.9)

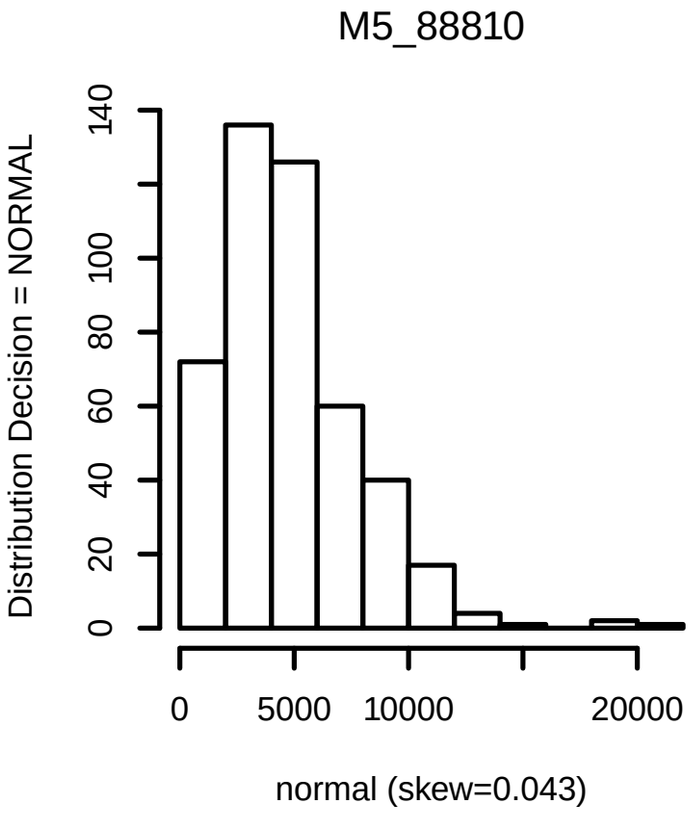

M5_06309
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
50000
150000
250000
normal (skew=1)

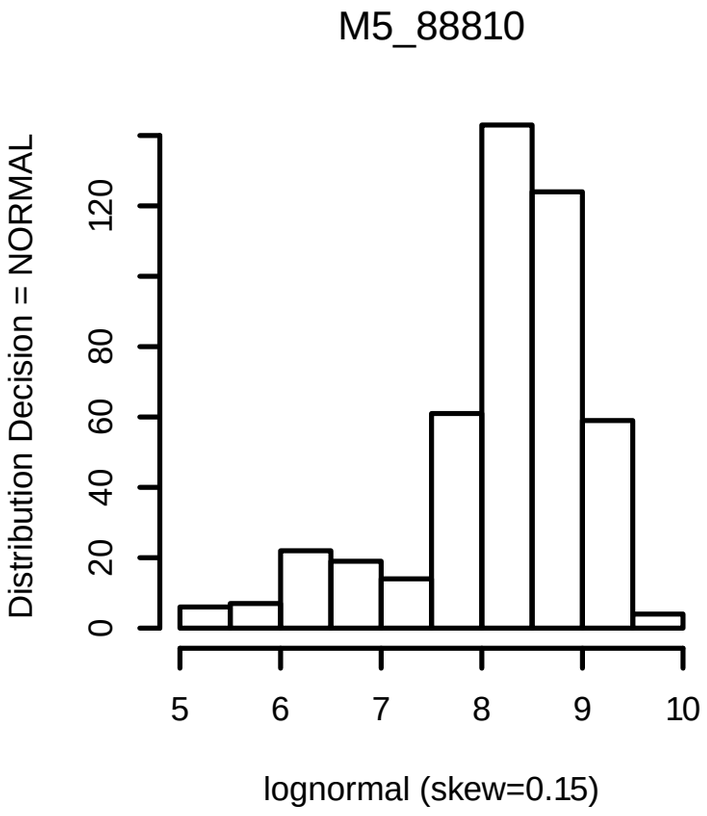

M5_06309
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
10
12
lognormal (skew=0.17)

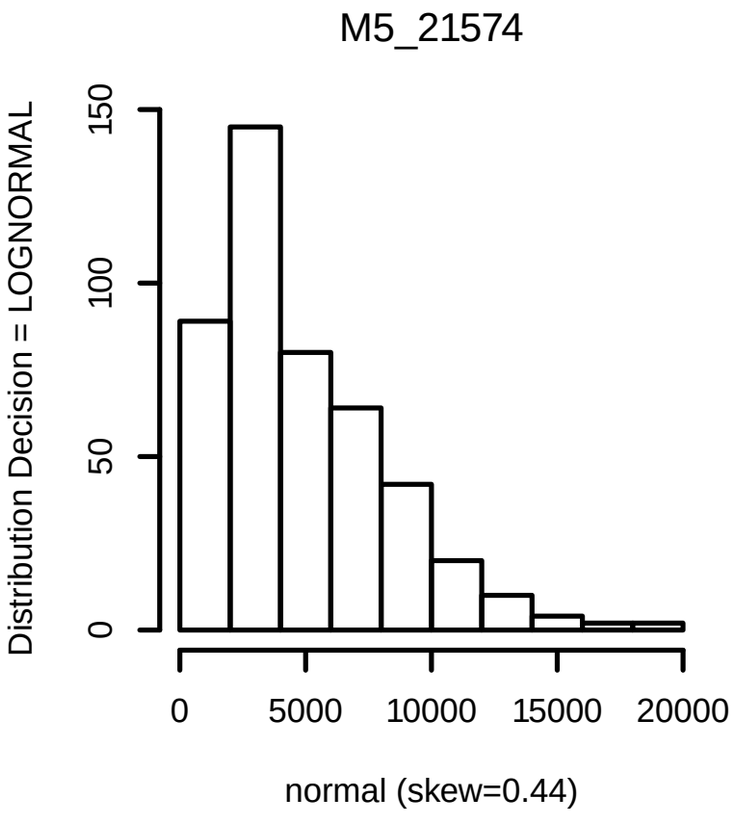

M5_99596
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
20000
40000
60000
normal (skew=1)
M5_99596
Distribution Decision = LOGNORMAL
0
50
100
150
7
8
9
10
11
lognormal (skew=0.55)
M5_28885
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
4e+04
8e+04
normal (skew=1)
M5_28885
Distribution Decision = LOGNORMAL
0
50
100
150
7
8
9
10
11
lognormal (skew=0.32)

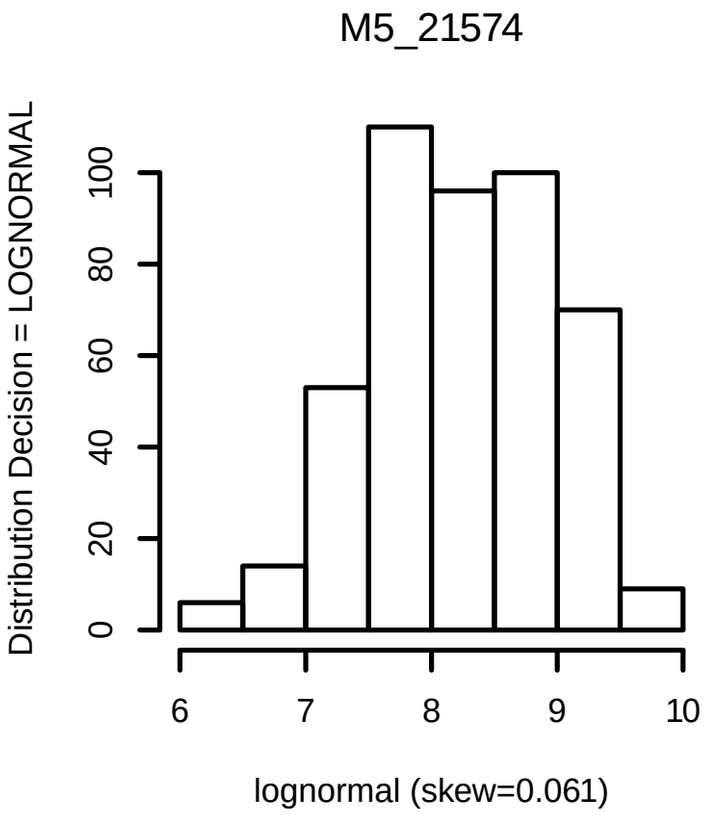

M5_26858
Distribution Decision = NORMAL
0
20
40
60
80
0
4000
8000
12000
normal (skew=0.037)

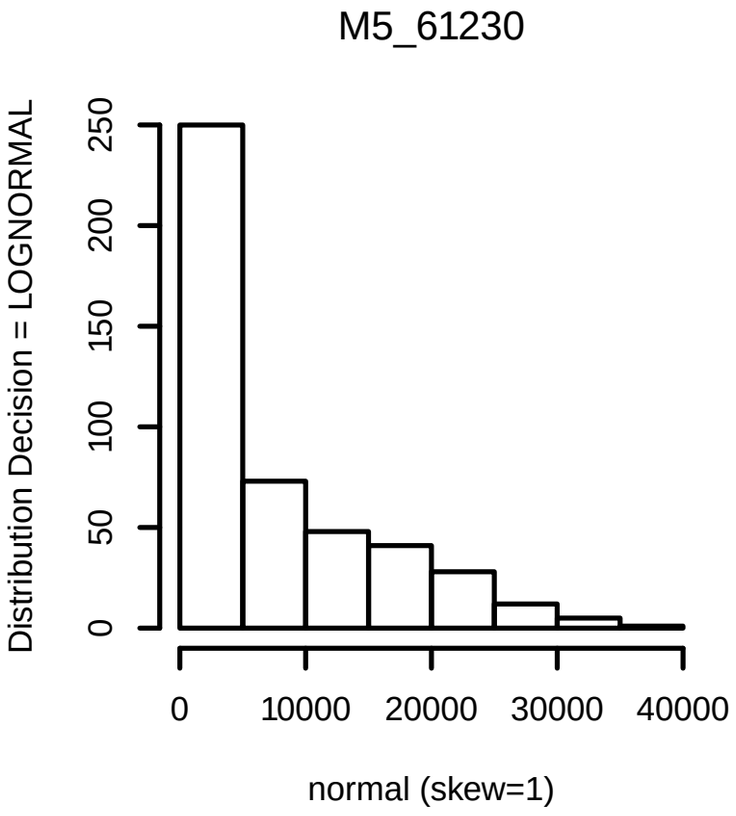

M5_26858
Distribution Decision = NORMAL
0
50
100
150
5
6
7
8
9
lognormal (skew=0.18)

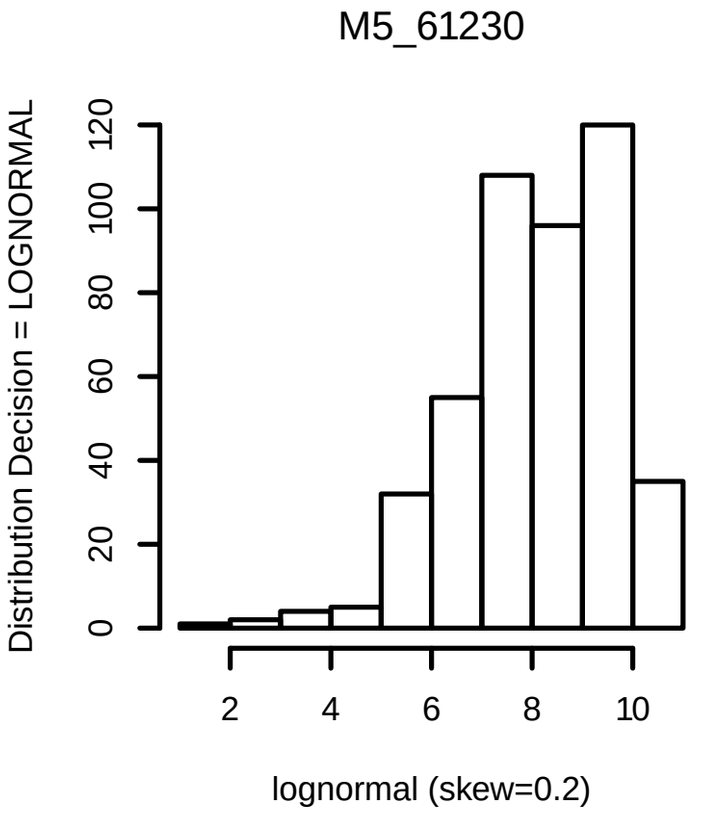

M5_88810
Distribution Decision = NORMAL
0
20
40
60
80
100
140
0
5000
10000
20000
normal (skew=0.043)

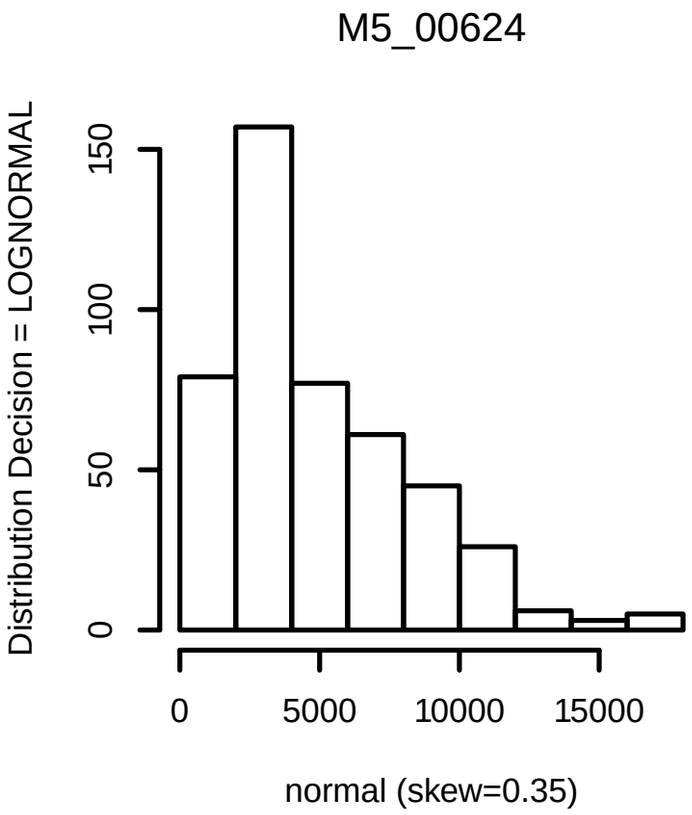

M5_88810
Distribution Decision = NORMAL
0
20
40
60
80
120
5
6
7
8
9
10
lognormal (skew=0.15)

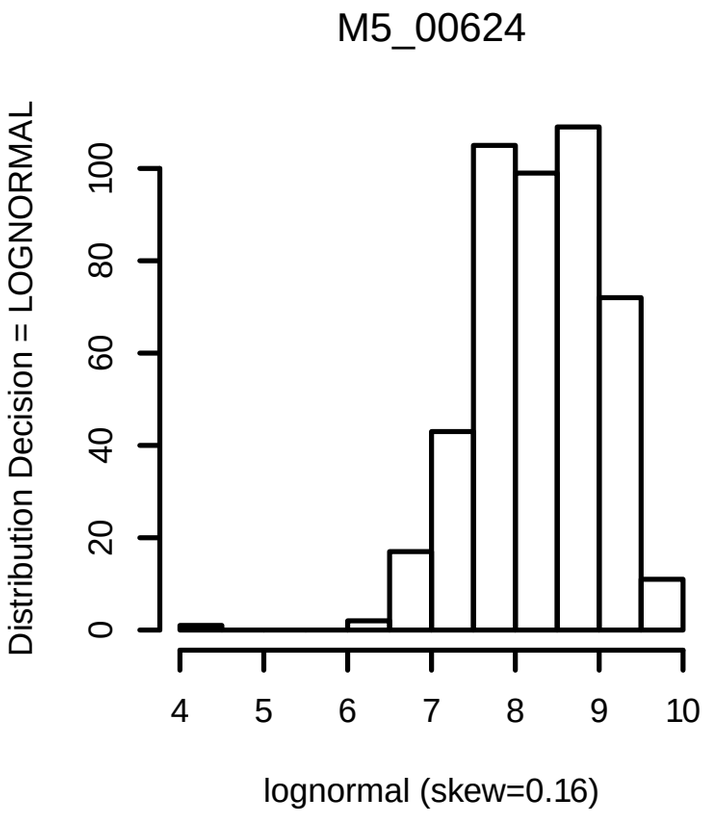

M5_21574
Distribution Decision = LOGNORMAL
0
50
100
150
0
5000
10000
15000
20000
normal (skew=0.44)

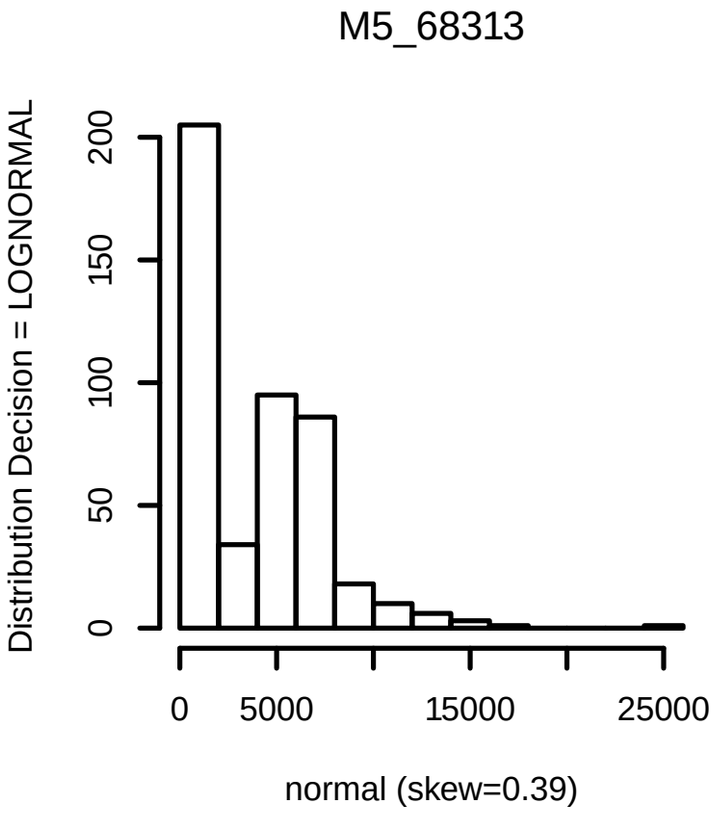

M5_21574
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
lognormal (skew=0.061)

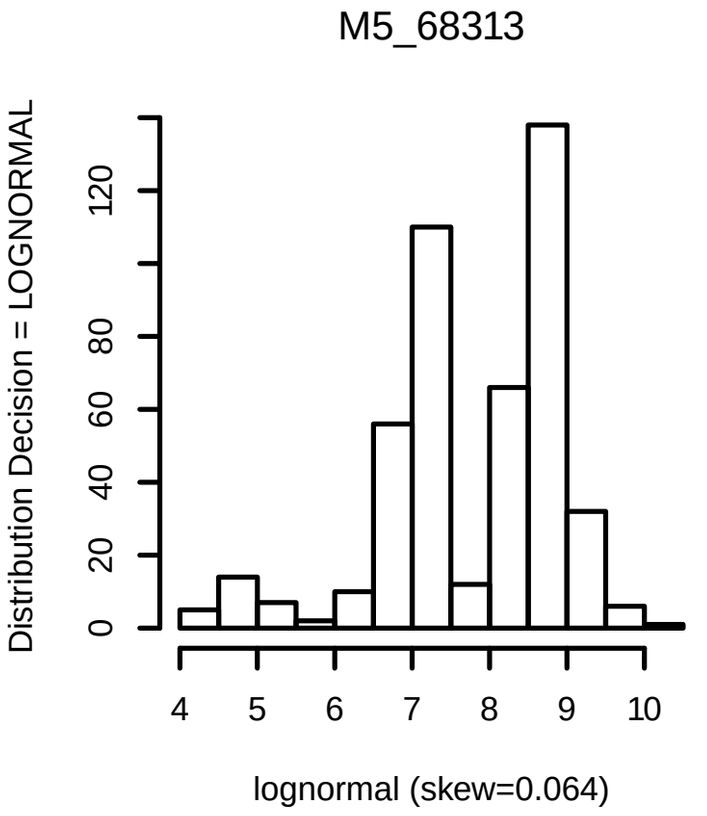

M5_61230
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
10000
20000
30000
40000
normal (skew=1)

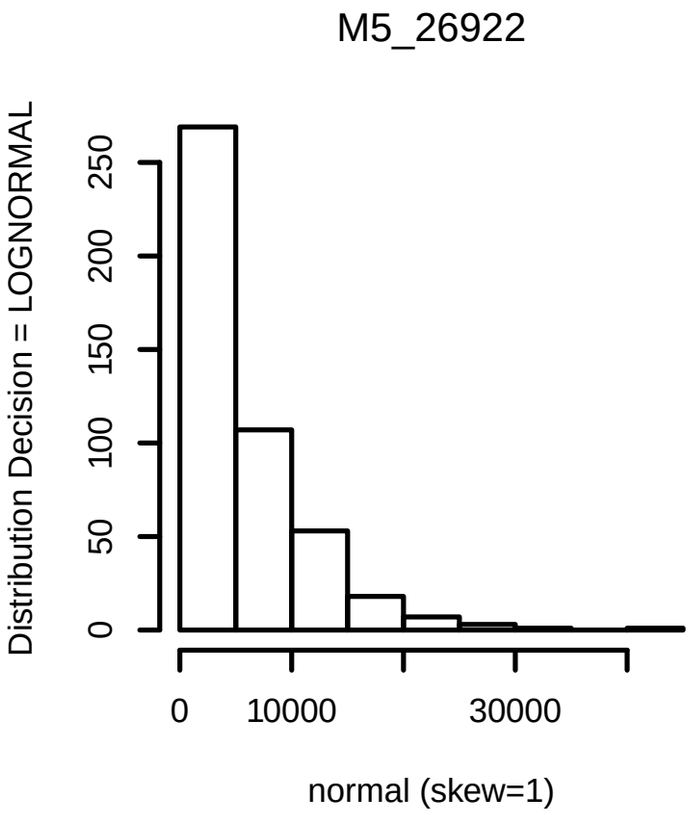

M5_61230
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
2
4
6
8
10
lognormal (skew=0.2)

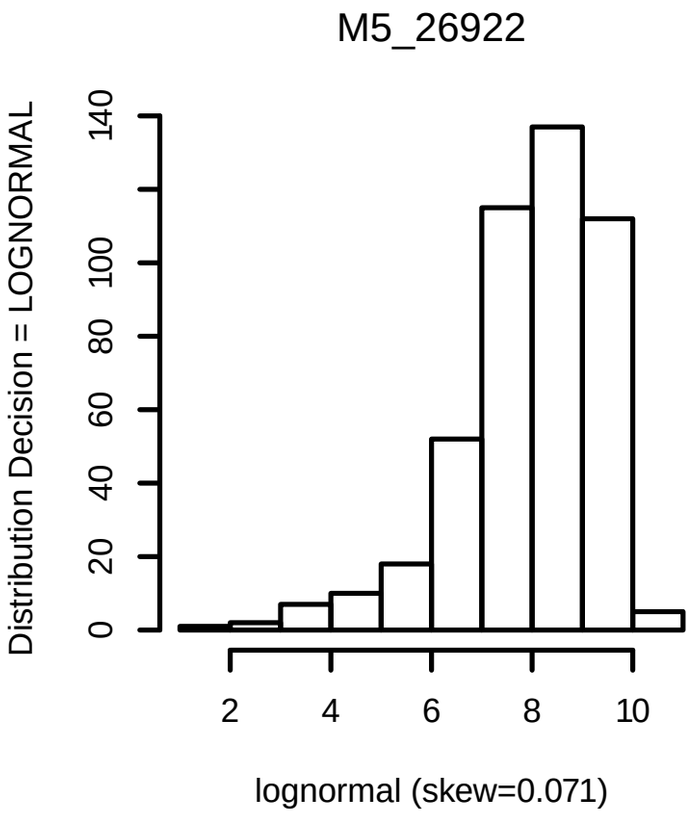

M5_00624
Distribution Decision = LOGNORMAL
0
50
100
150
0
5000
10000
15000
normal (skew=0.35)

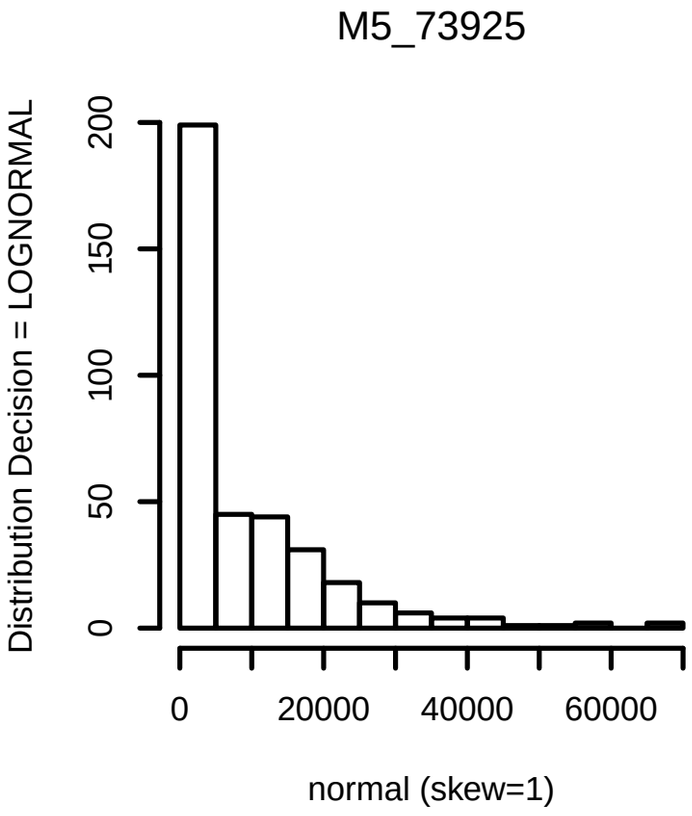

M5_00624
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
9
10
lognormal (skew=0.16)

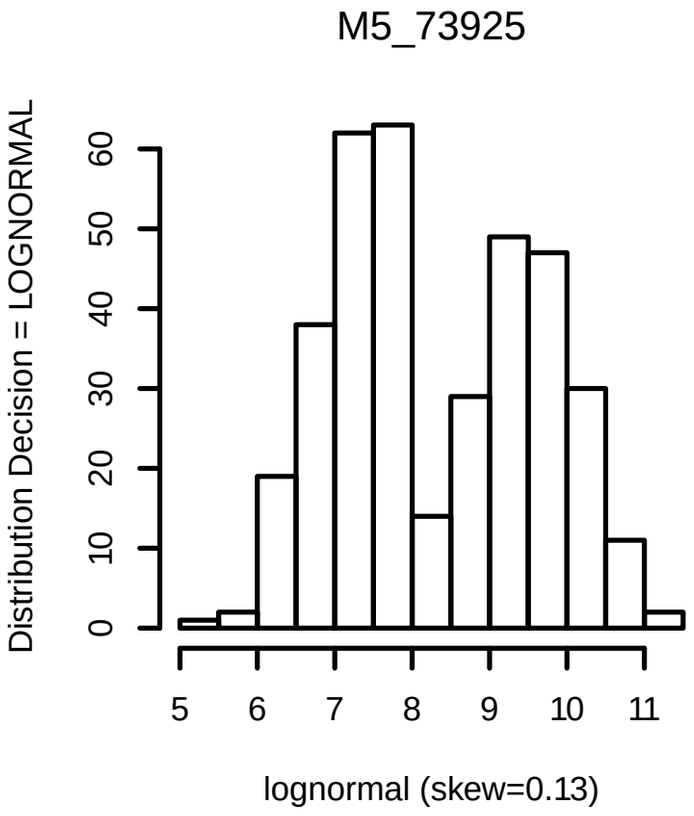

M5_68313
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
5000
15000
25000
normal (skew=0.39)

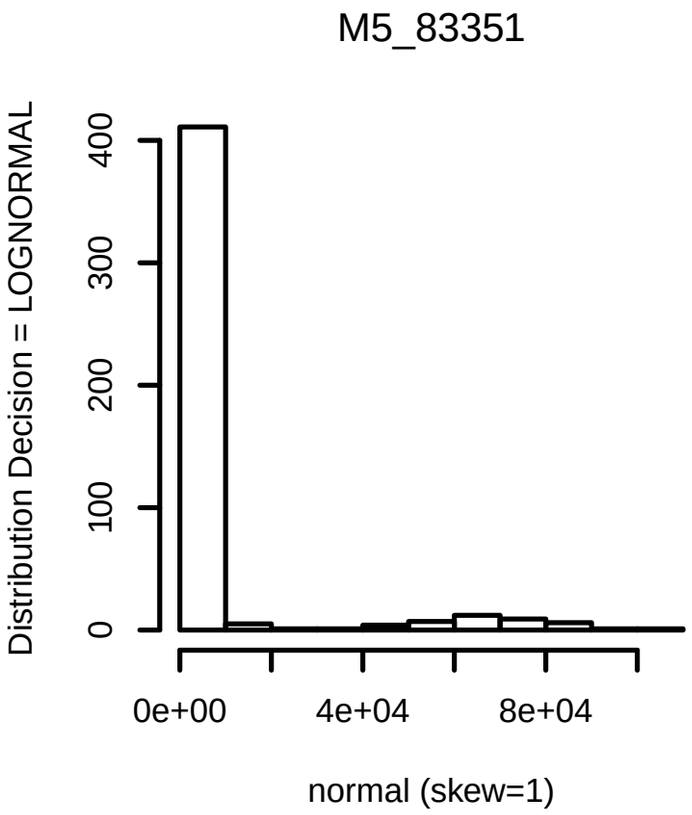

M5_68313
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
4
5
6
7
8
9
10
lognormal (skew=0.064)

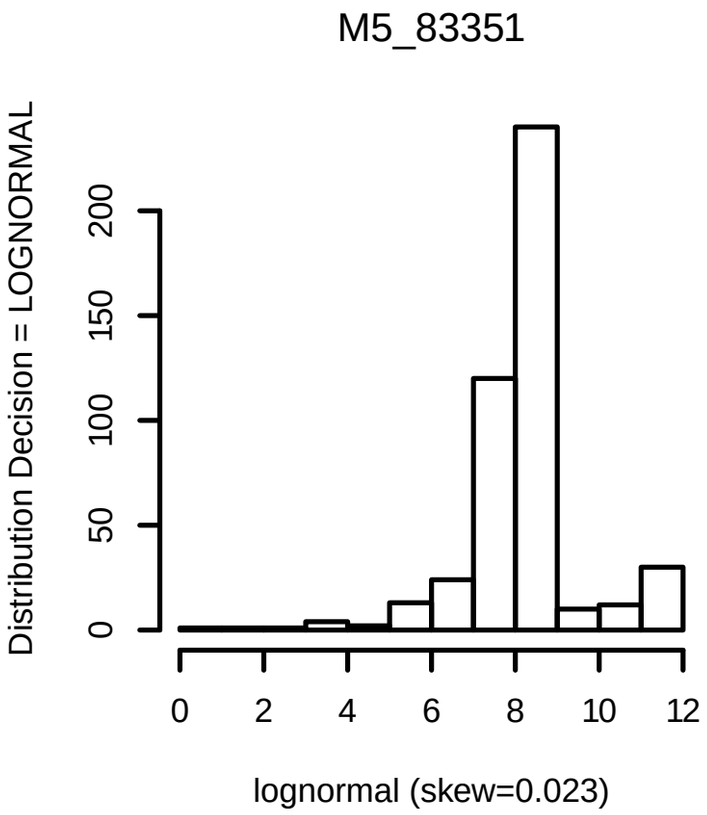

M5_26922
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
10000
30000
normal (skew=1)

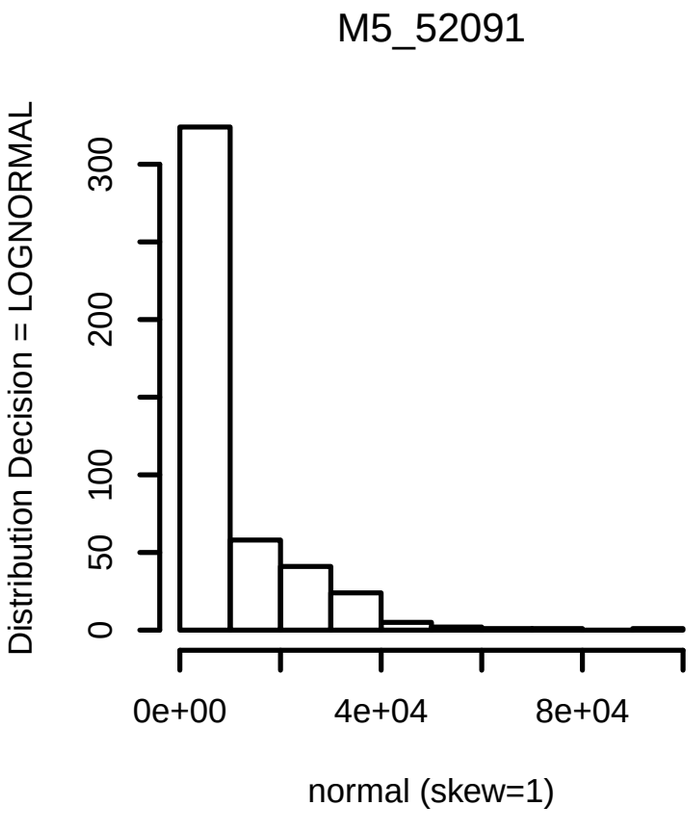

M5_26922
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
2
4
6
8
10
lognormal (skew=0.071)

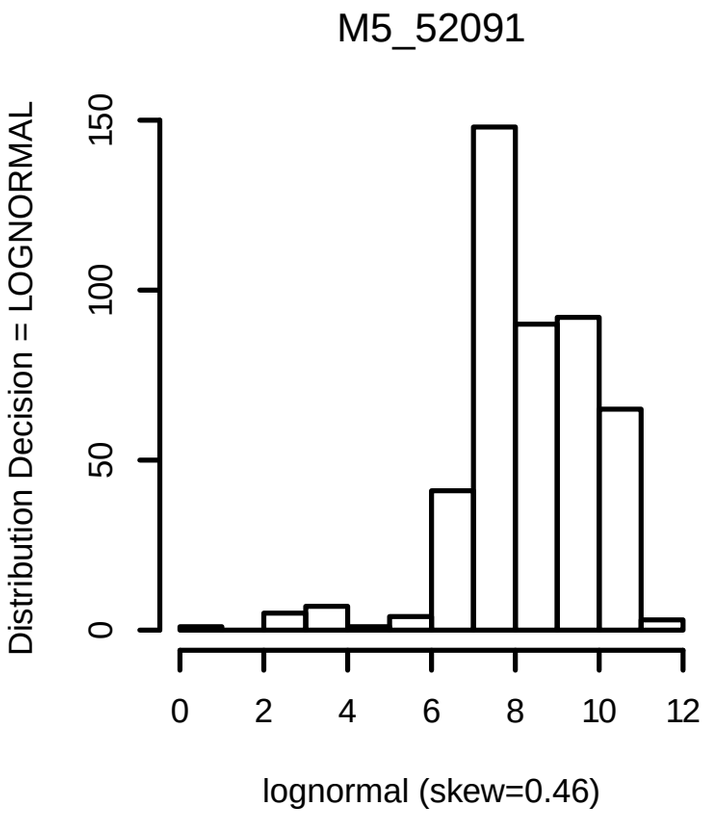

M5_73925
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
20000
40000
60000
normal (skew=1)

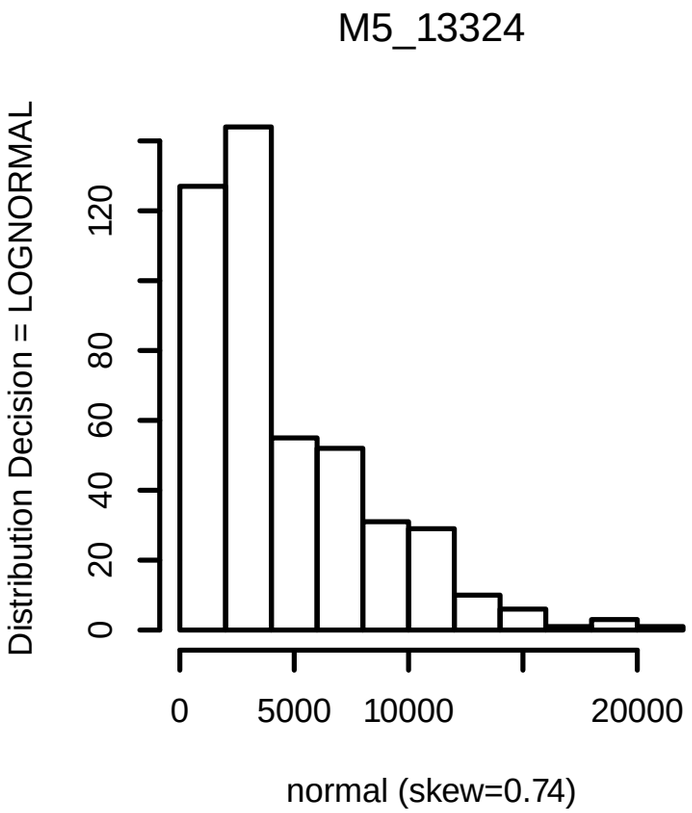

M5_73925
Distribution Decision = LOGNORMAL
0
10
20
30
40
50
60
5
6
7
8
9
10
11
lognormal (skew=0.13)

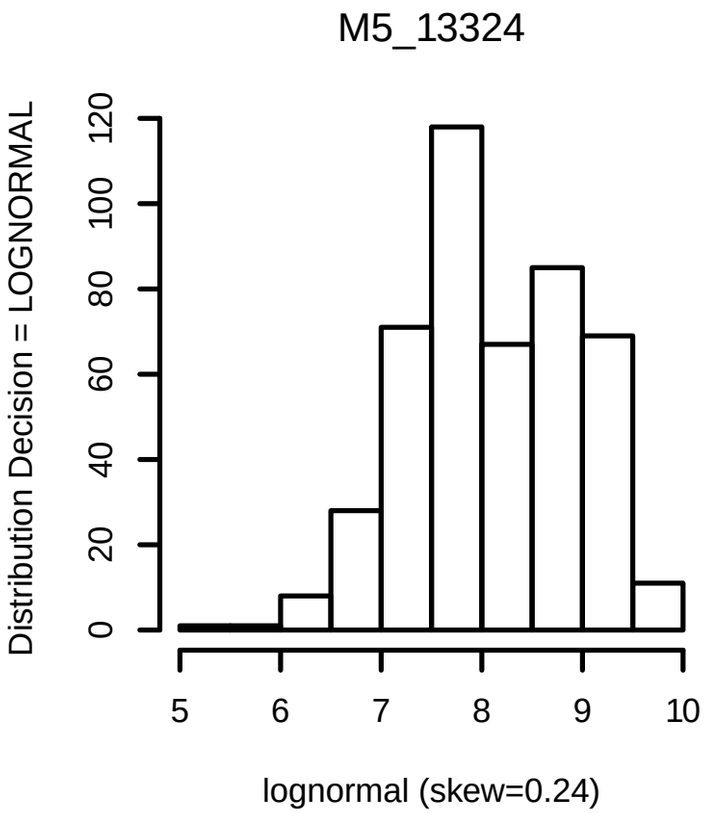

M5_83351
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
4e+04
8e+04
normal (skew=1)

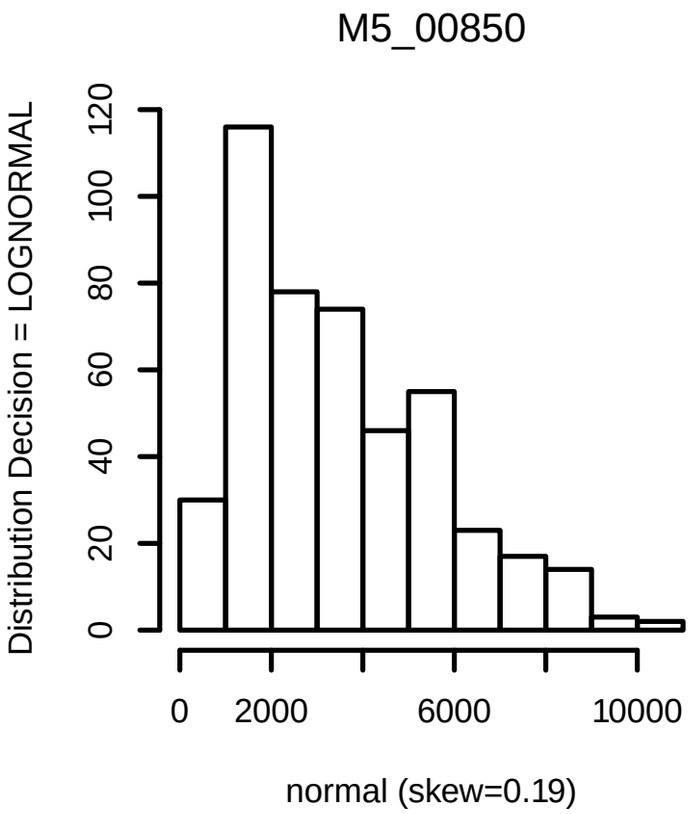

M5_83351
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
10
12
lognormal (skew=0.023)

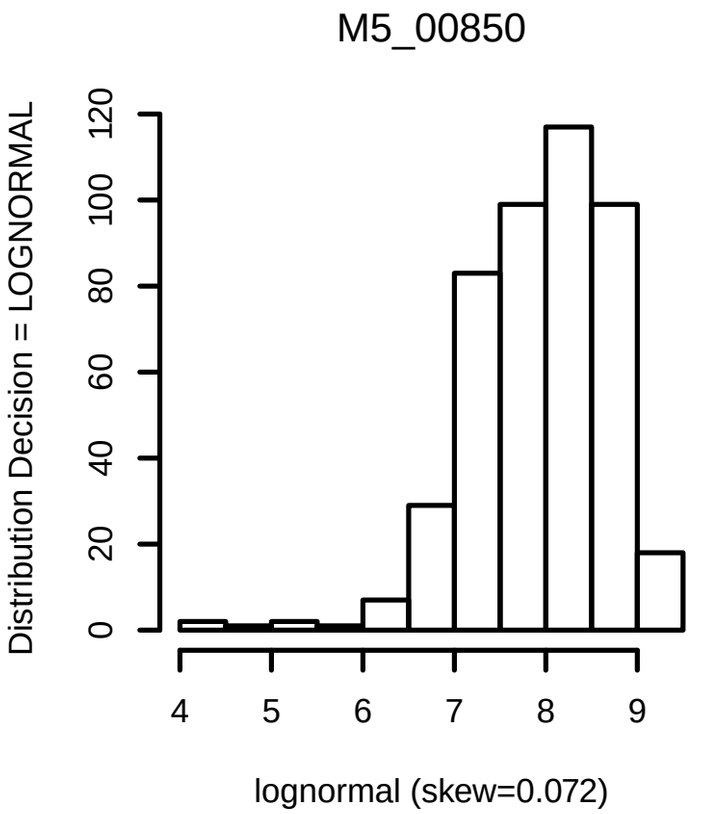

M5_52091
Distribution Decision = LOGNORMAL
0
50
100
200
300
0e+00
4e+04
8e+04
normal (skew=1)

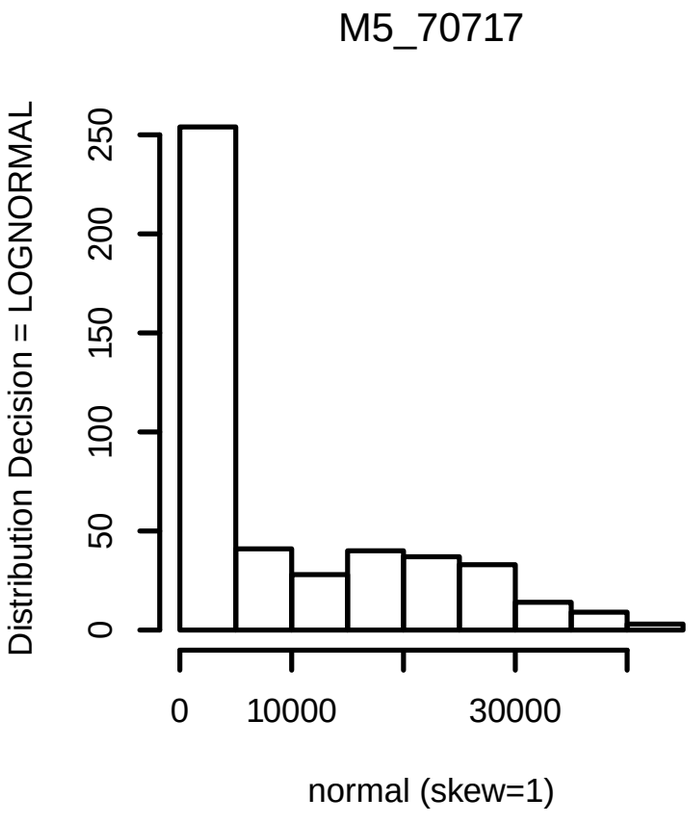

M5_52091
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
12
lognormal (skew=0.46)

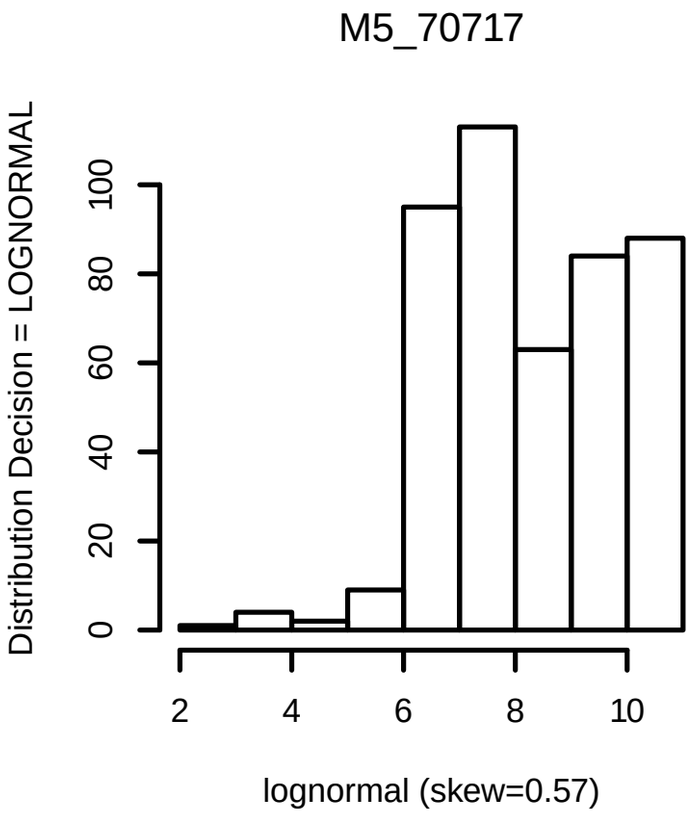

M5_13324
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
5000
10000
20000
normal (skew=0.74)

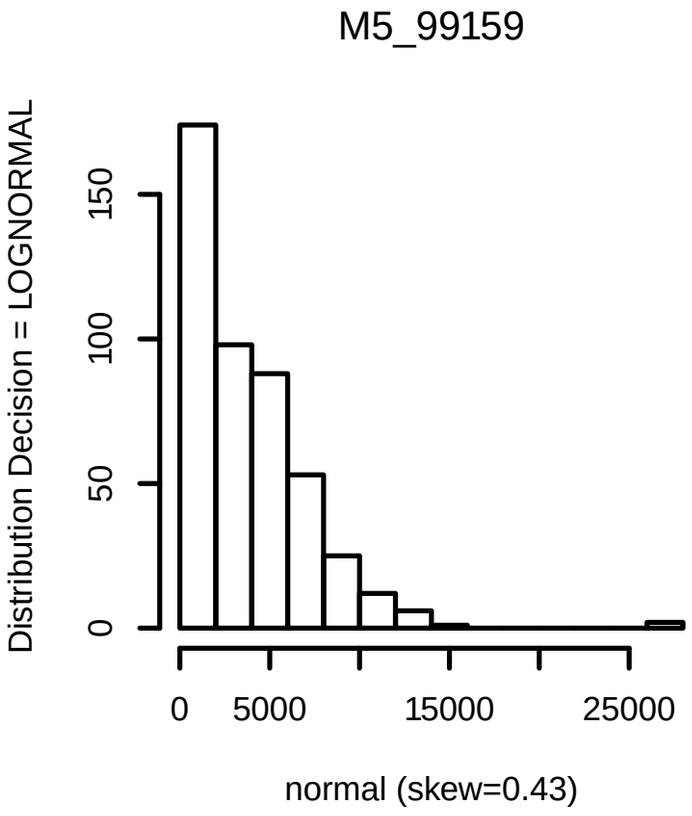

M5_13324
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
5
6
7
8
9
10
lognormal (skew=0.24)

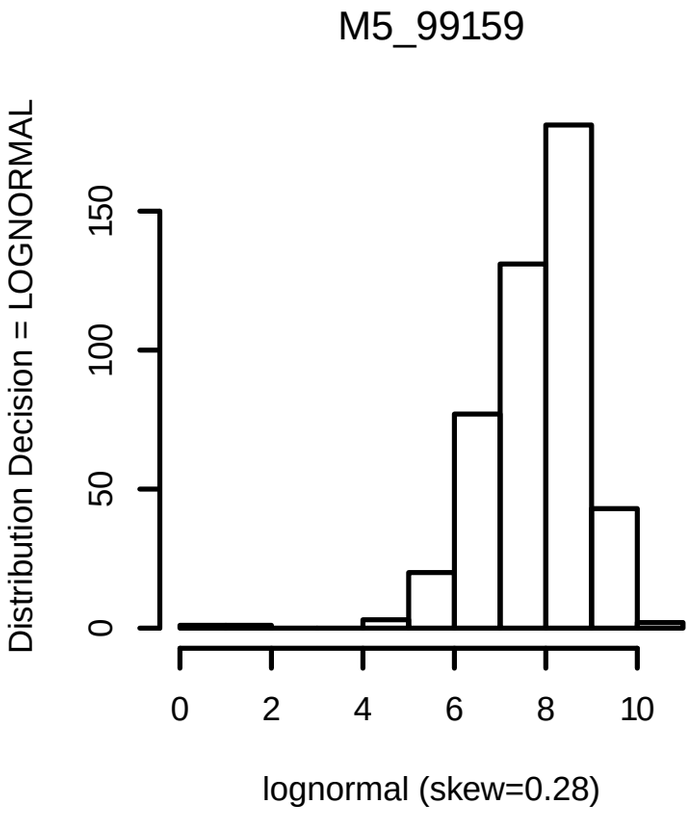

M5_00850
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
2000
6000
10000
normal (skew=0.19)

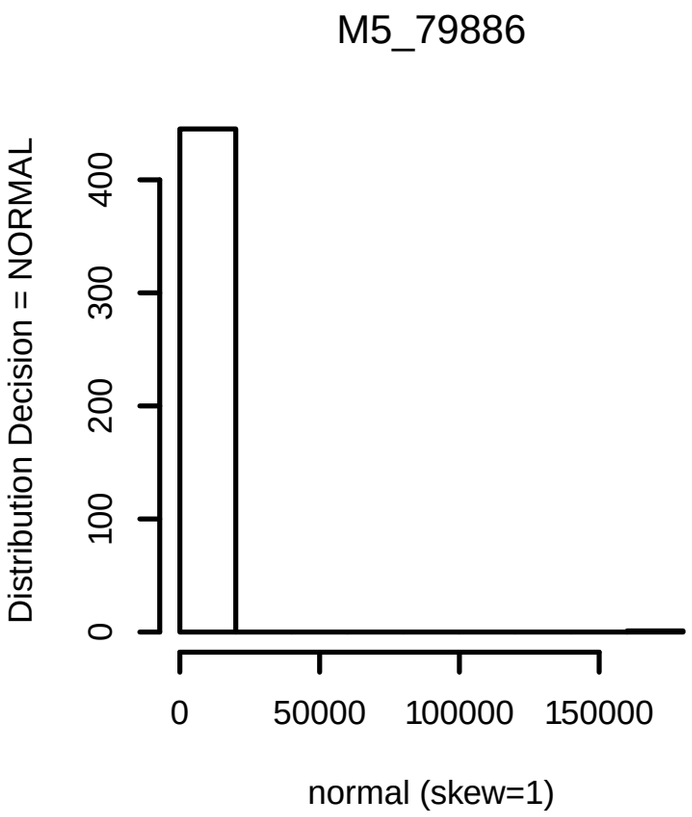

M5_00850
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
4
5
6
7
8
9
lognormal (skew=0.072)

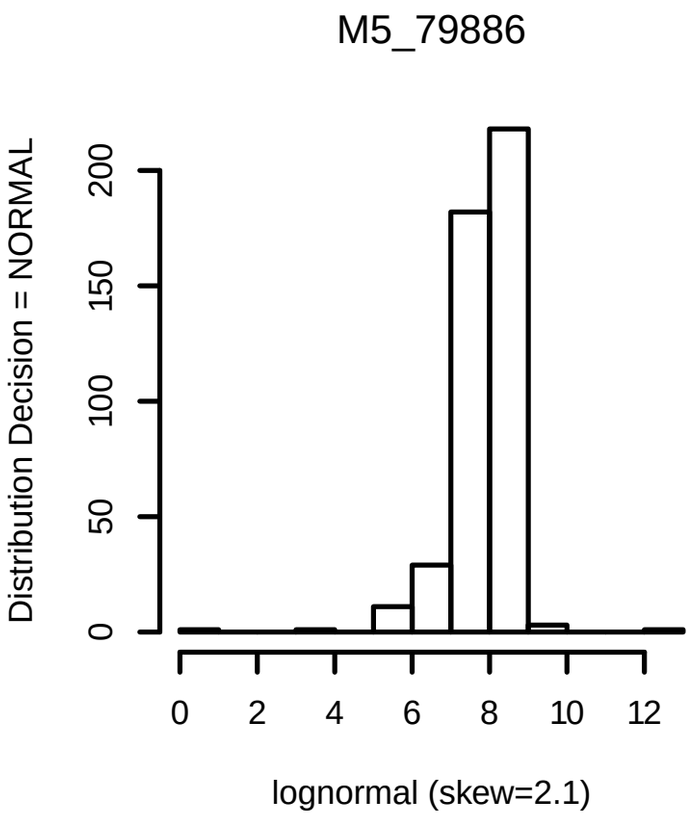

M5_70717
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
10000
30000
normal (skew=1)

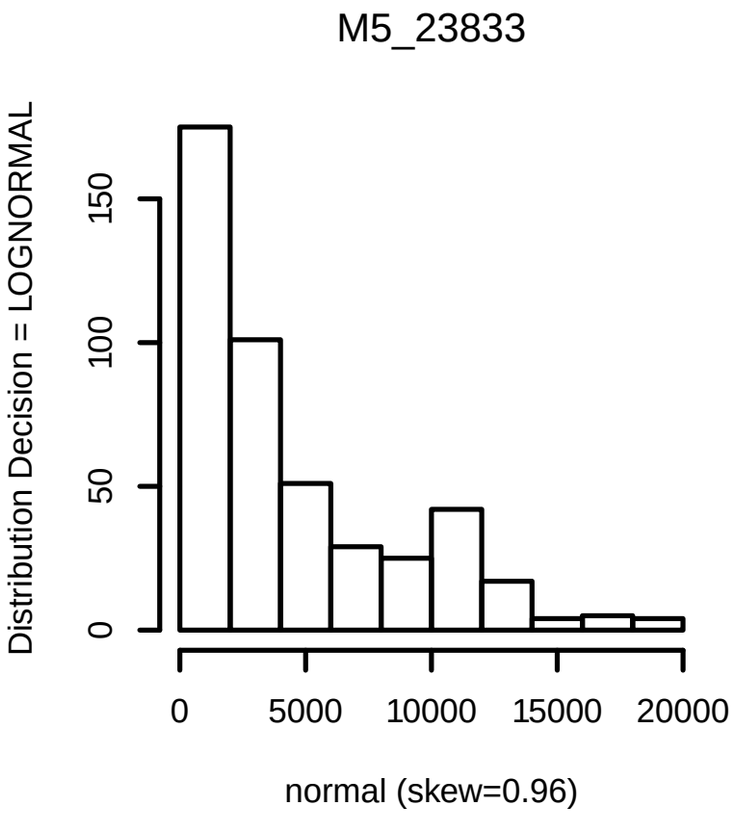

M5_70717
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
2
4
6
8
10
lognormal (skew=0.57)

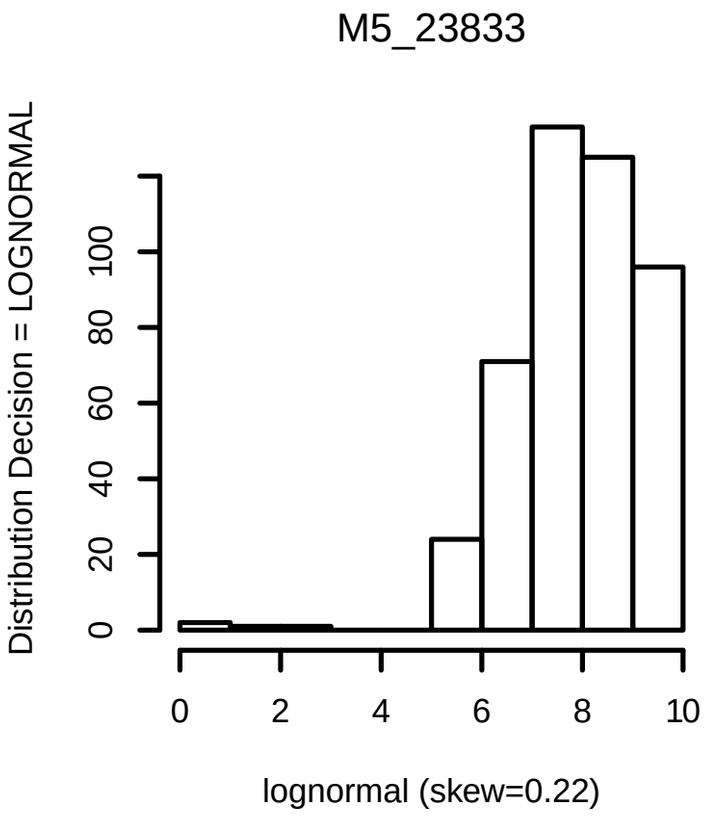

M5_99159
Distribution Decision = LOGNORMAL
0
50
100
150
0
5000
15000
25000
normal (skew=0.43)

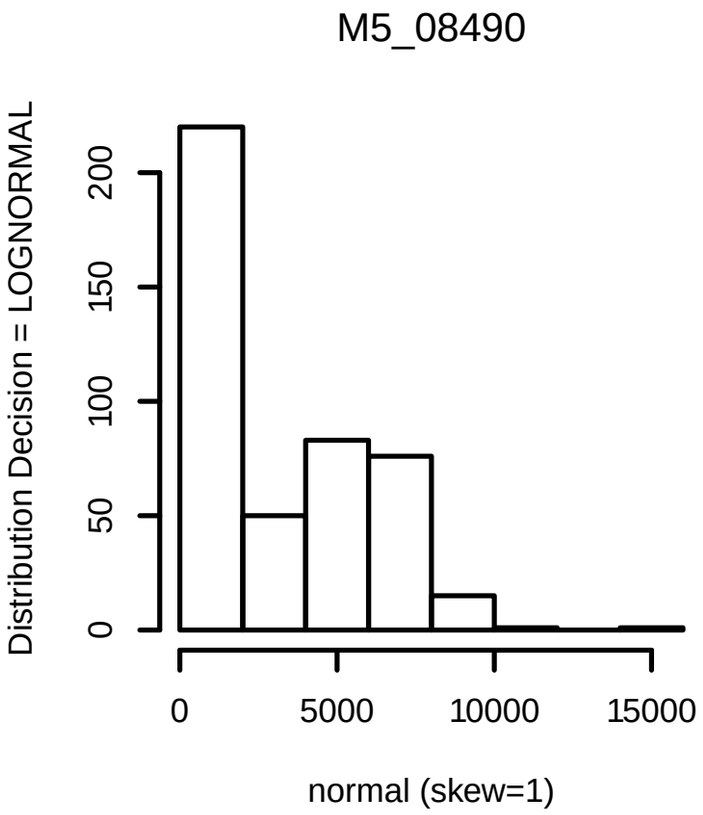

M5_99159
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
lognormal (skew=0.28)

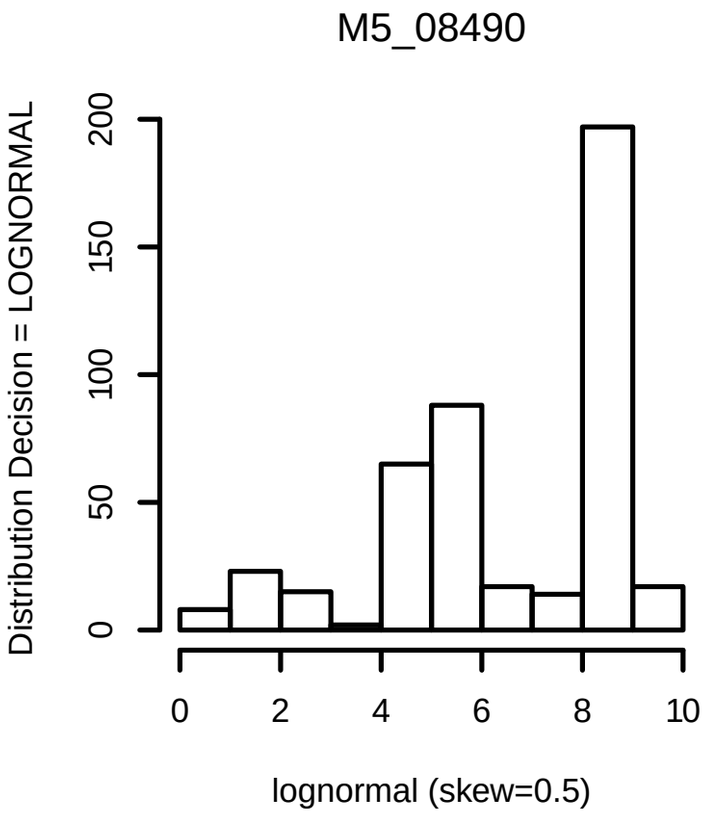

M5_79886
Distribution Decision = NORMAL
0
100
200
300
400
0
50000
100000
150000
normal (skew=1)

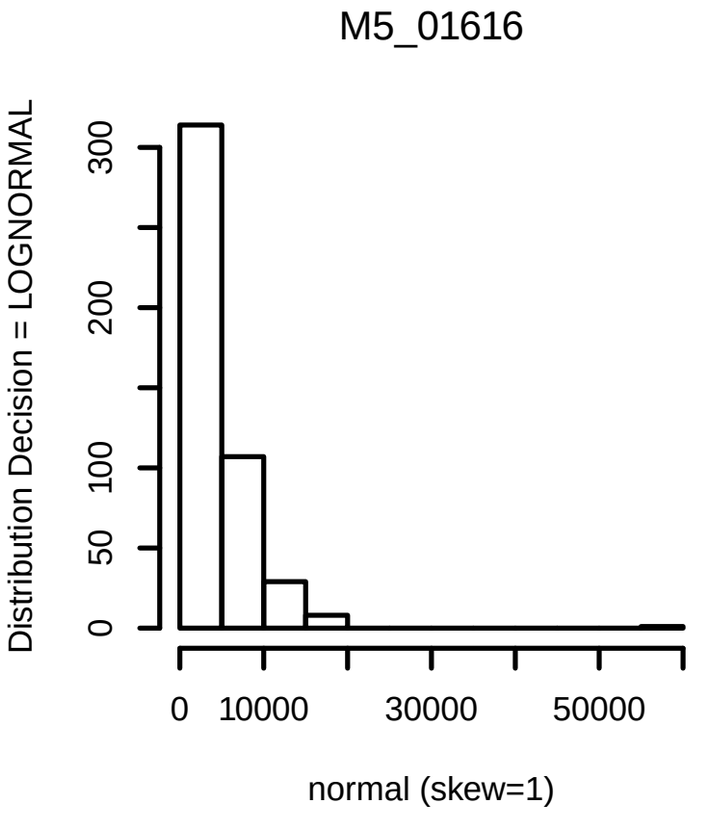

M5_79886
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
10
12
lognormal (skew=2.1)

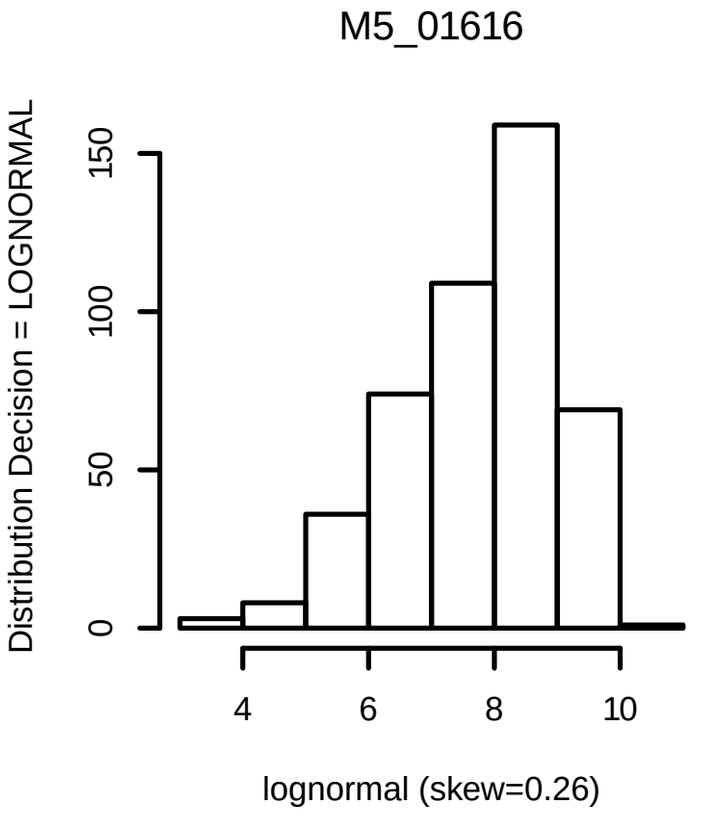

M5_23833
Distribution Decision = LOGNORMAL
0
50
100
150
0
5000
10000
15000
20000
normal (skew=0.96)

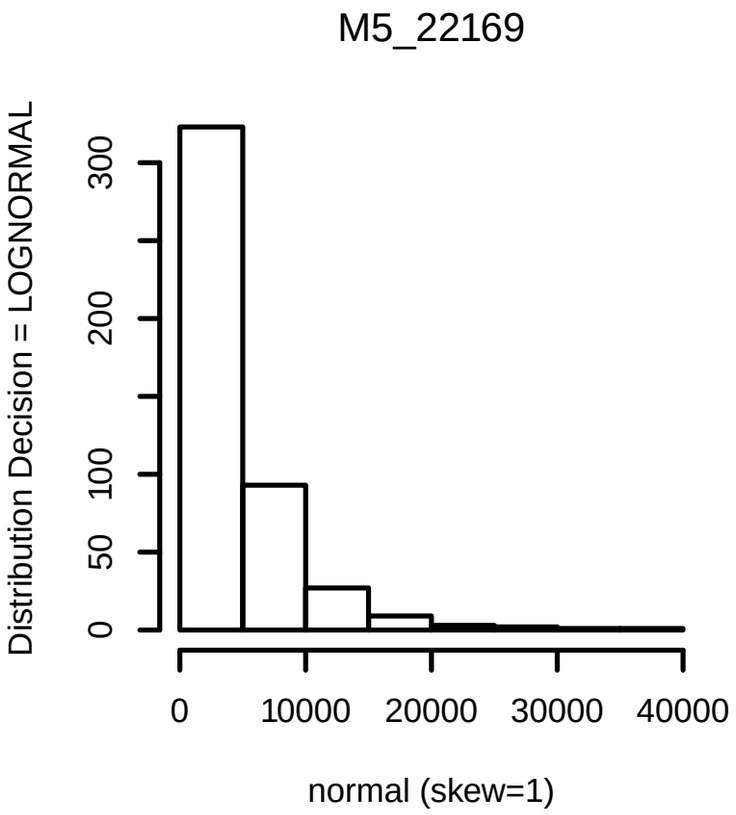

M5_23833
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2
4
6
8
10
lognormal (skew=0.22)

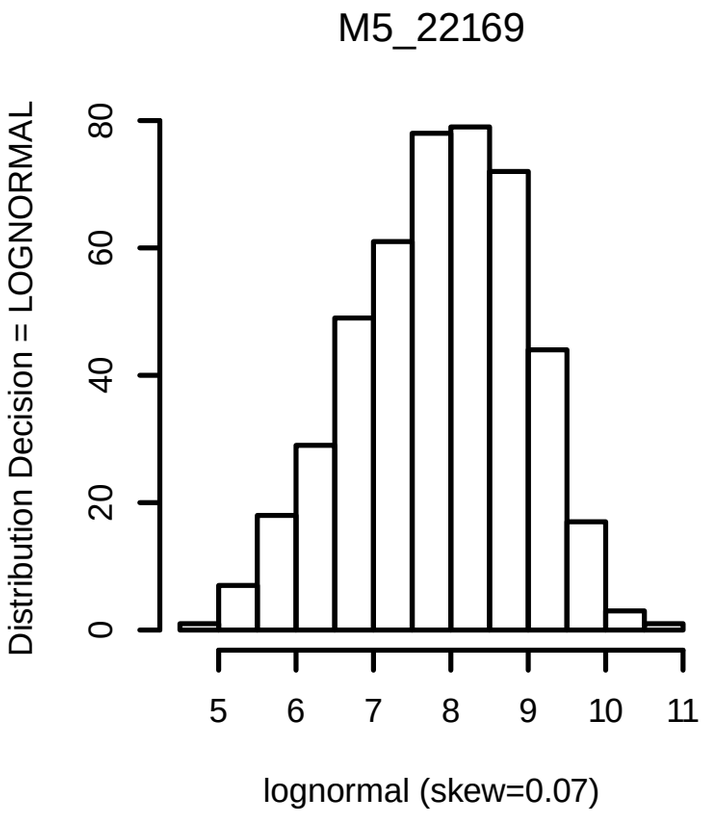

M5_08490
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
5000
10000
15000
normal (skew=1)

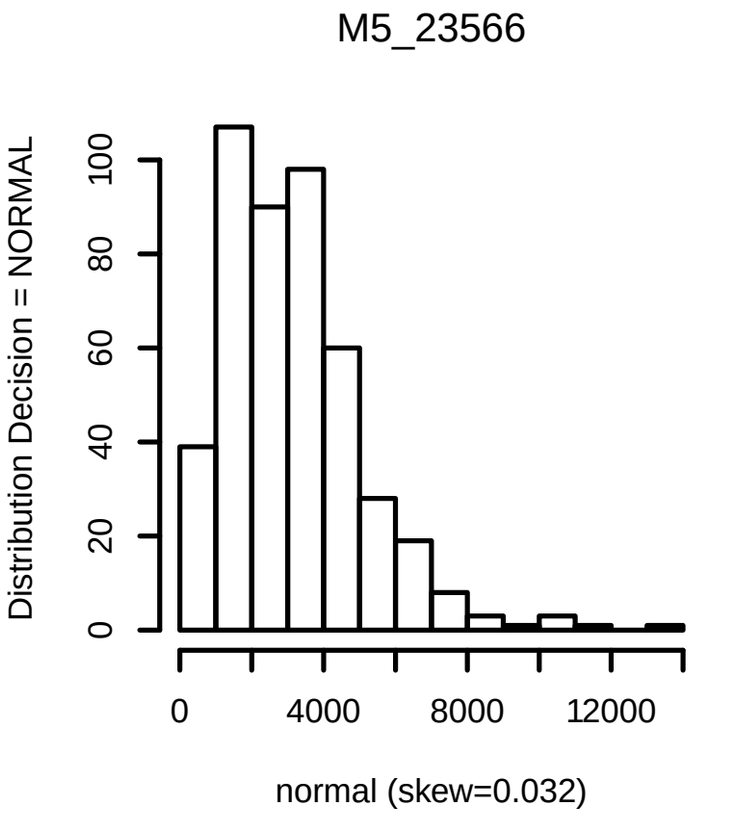

M5_08490
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
10
lognormal (skew=0.5)

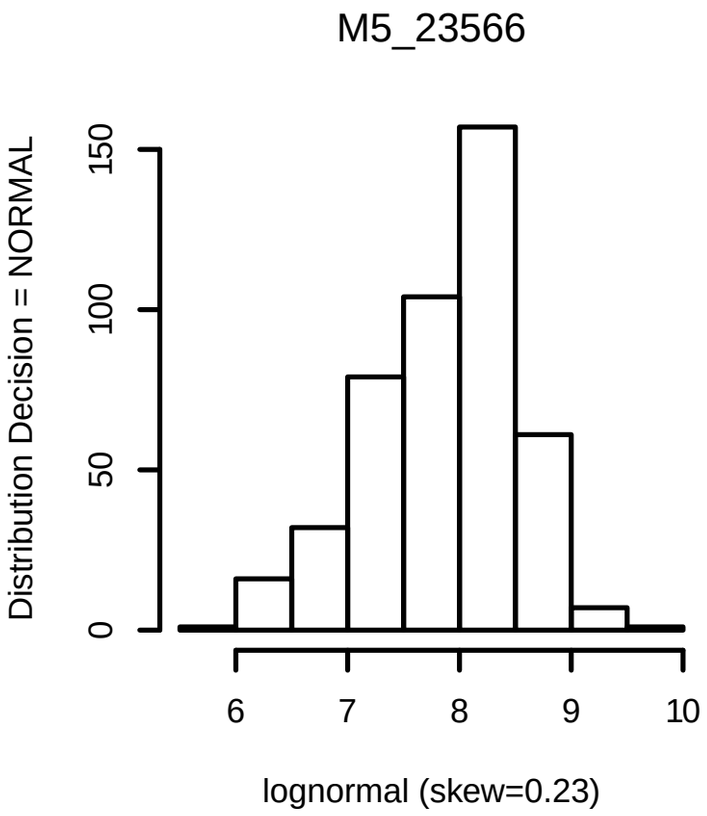

M5_01616
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
10000
30000
50000
normal (skew=1)

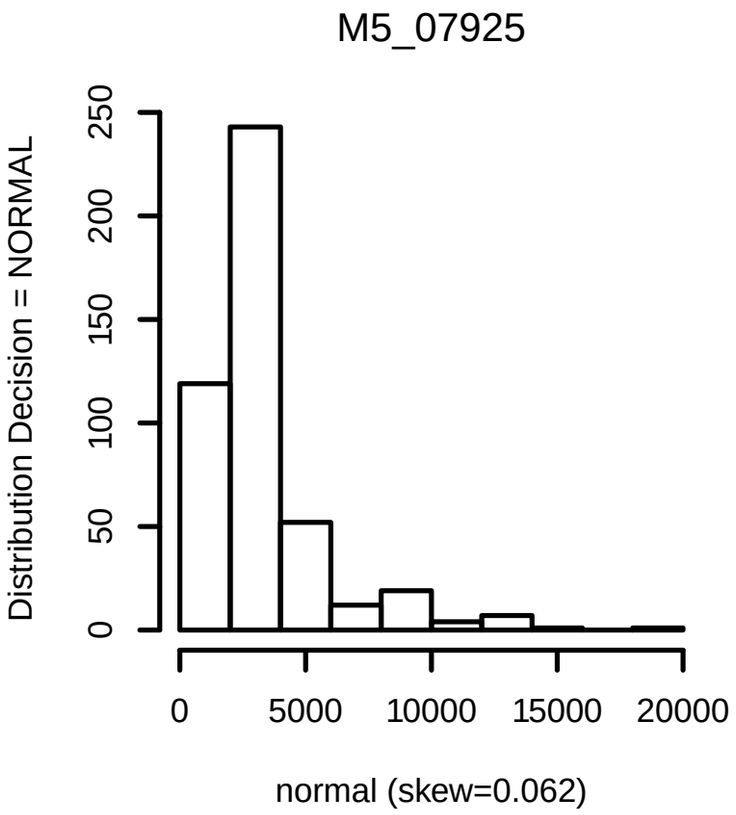

M5_01616
Distribution Decision = LOGNORMAL
0
50
100
150
4
6
8
10
lognormal (skew=0.26)

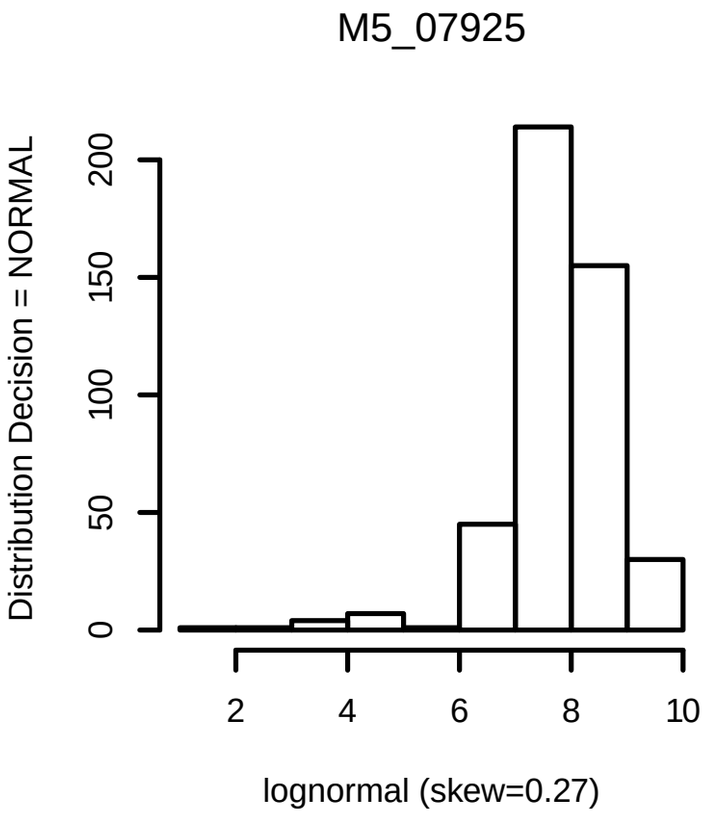

M5_22169
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
10000
20000
30000
40000
normal (skew=1)

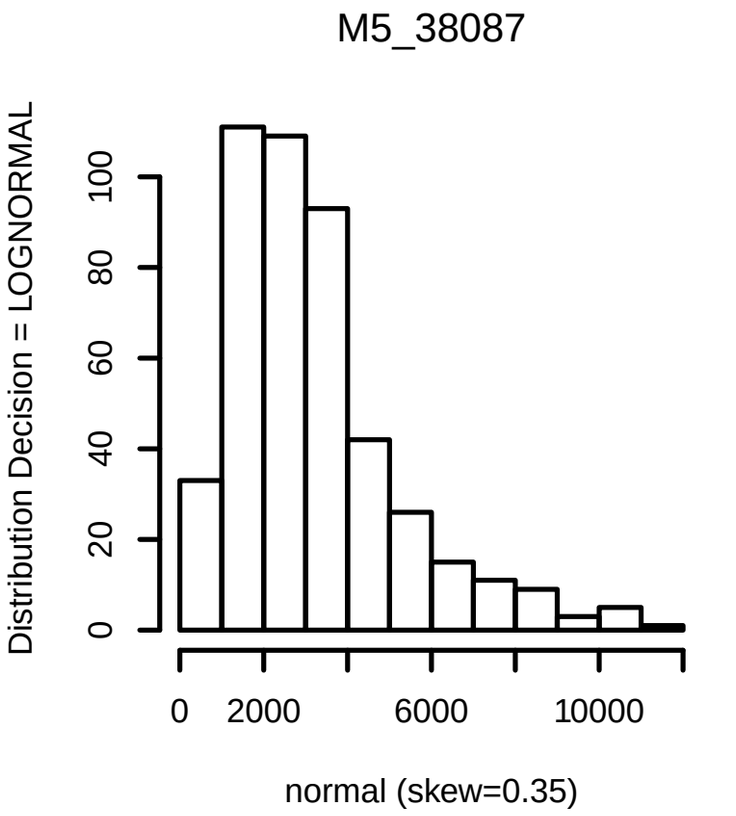

M5_22169
Distribution Decision = LOGNORMAL
0
20
40
60
80
5
6
7
8
9
10
11
lognormal (skew=0.07)

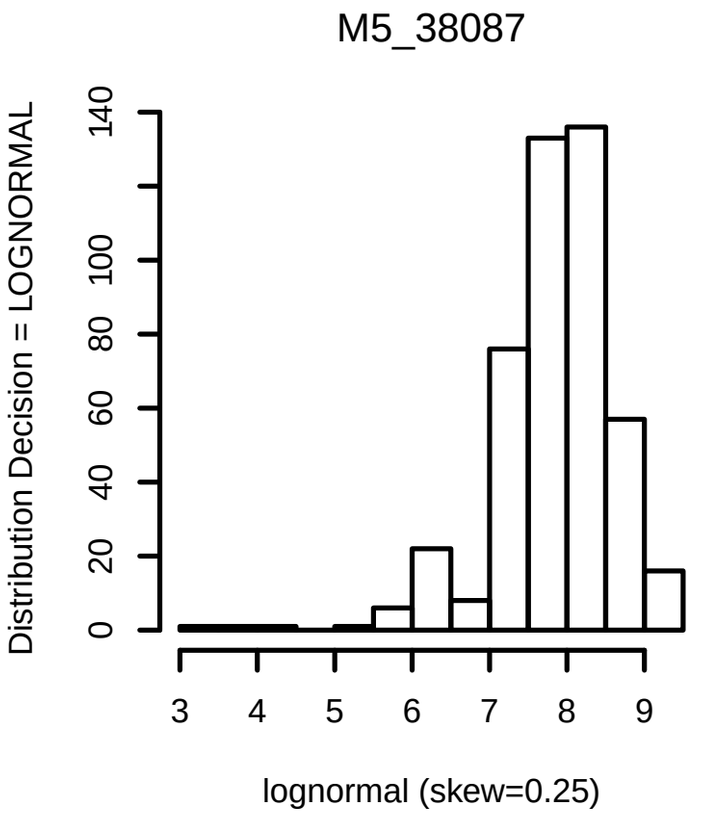

M5_23566
Distribution Decision = NORMAL
0
20
40
60
80
100
0
4000
8000
12000
normal (skew=0.032)

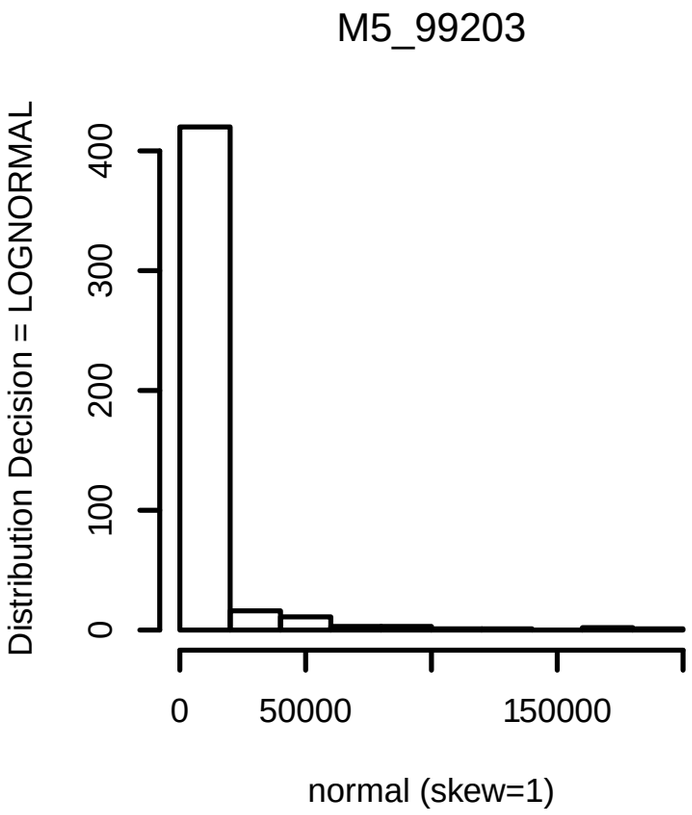

M5_23566
Distribution Decision = NORMAL
0
50
100
150
6
7
8
9
10
lognormal (skew=0.23)

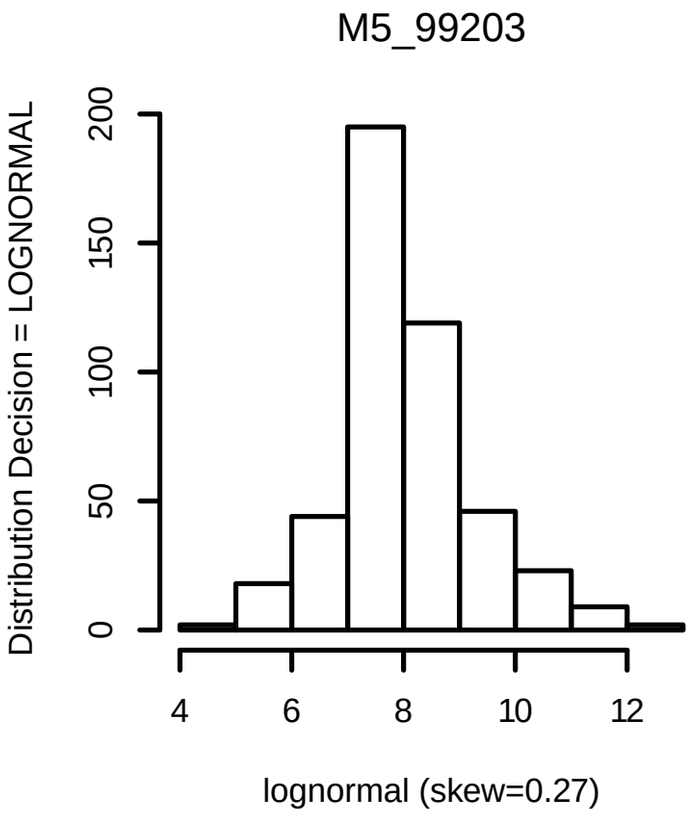

M5_07925
Distribution Decision = NORMAL
0
50
100
150
200
250
0
5000
10000
15000
20000
normal (skew=0.062)

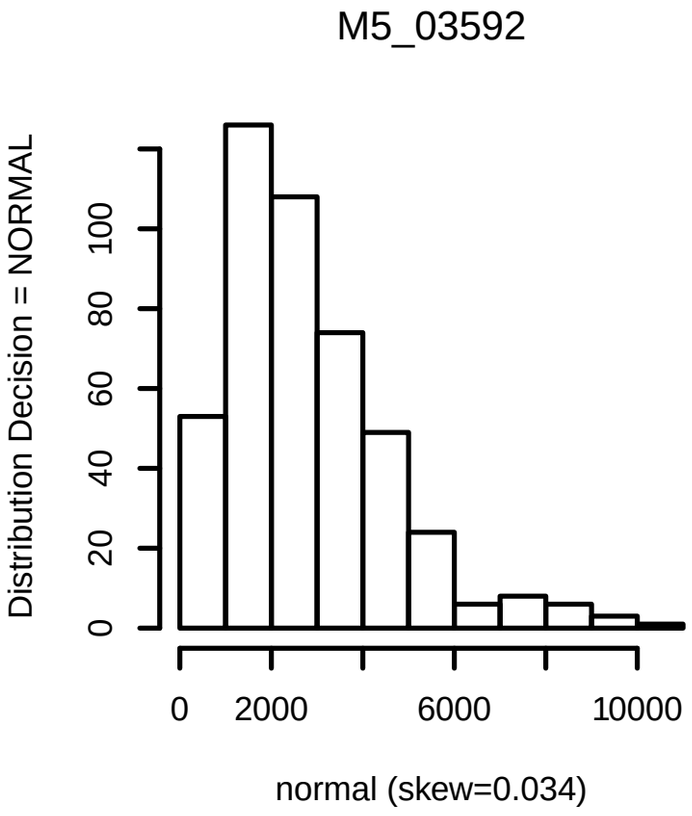

M5_07925
Distribution Decision = NORMAL
0
50
100
150
200
2
4
6
8
10
lognormal (skew=0.27)

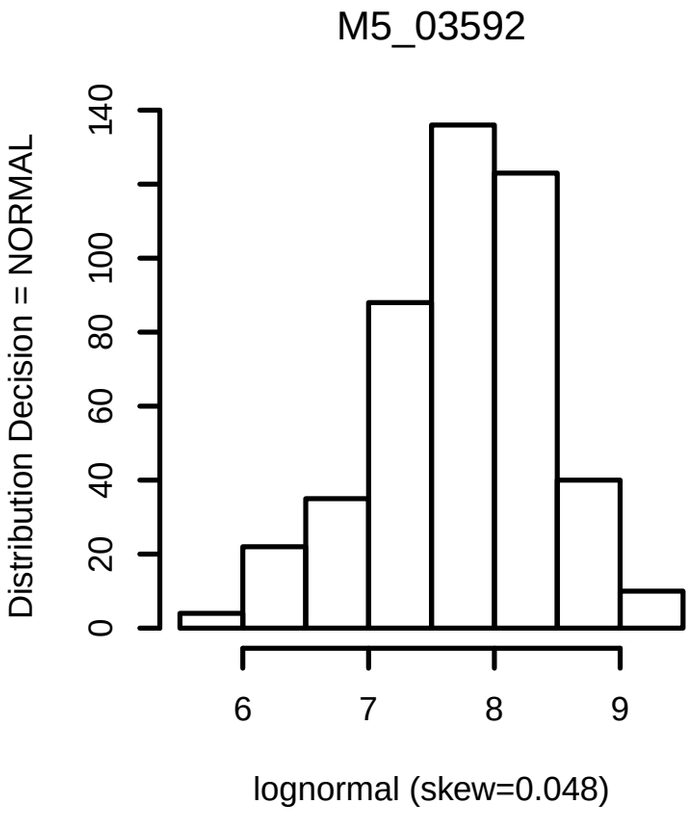

M5_38087
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2000
6000
10000
normal (skew=0.35)

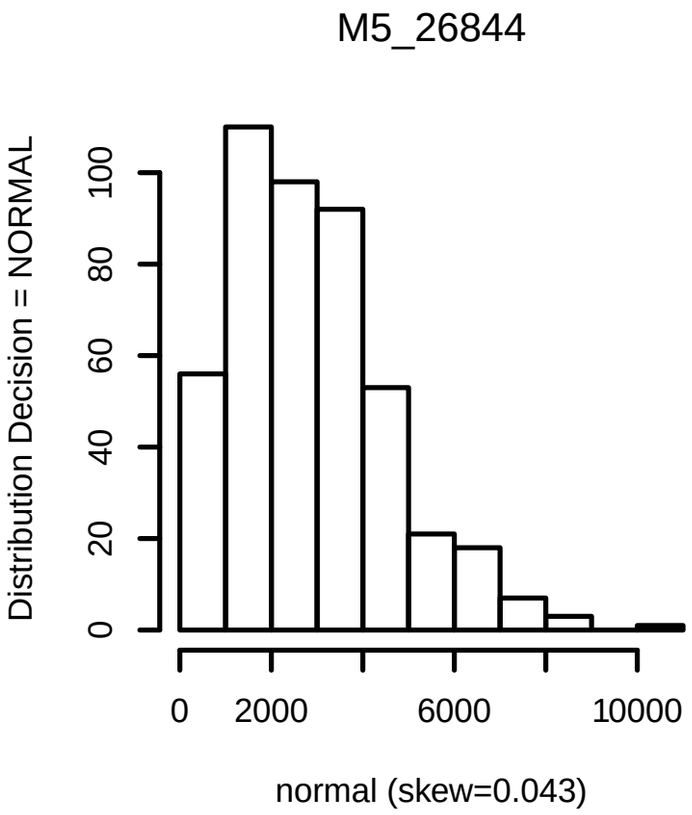

M5_38087
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
3
4
5
6
7
8
9
lognormal (skew=0.25)

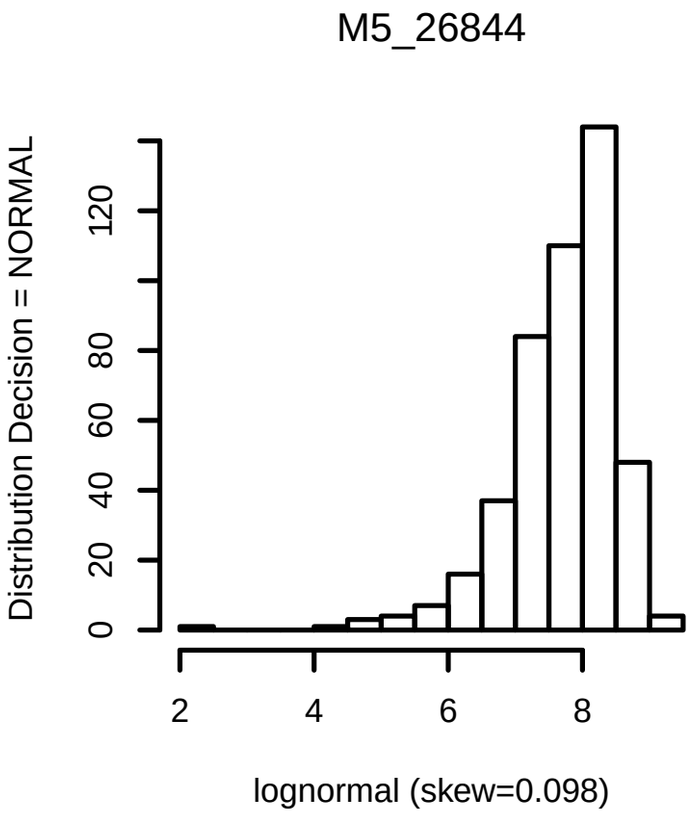

M5_99203
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
50000
150000
normal (skew=1)

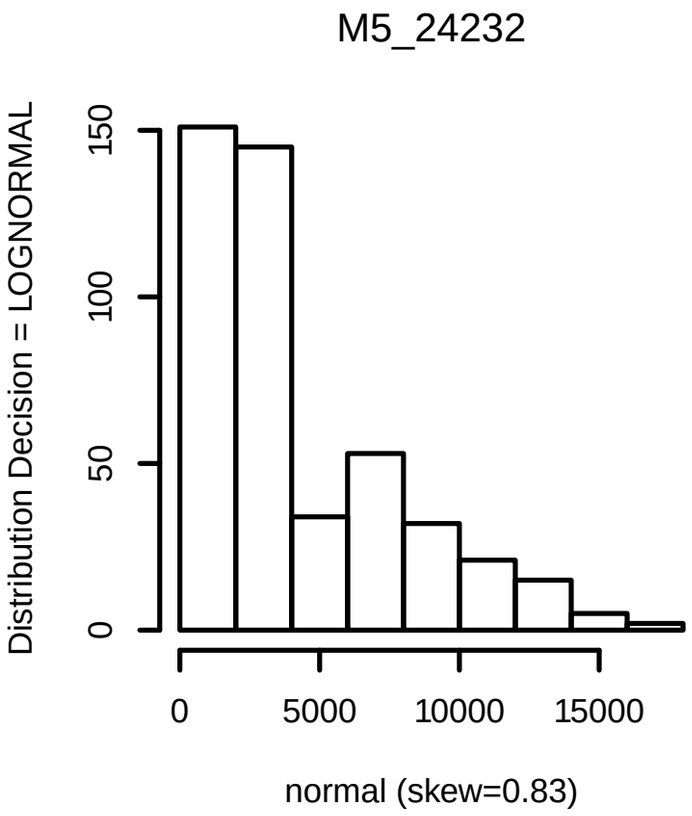

M5_99203
Distribution Decision = LOGNORMAL
0
50
100
150
200
4
6
8
10
12
lognormal (skew=0.27)

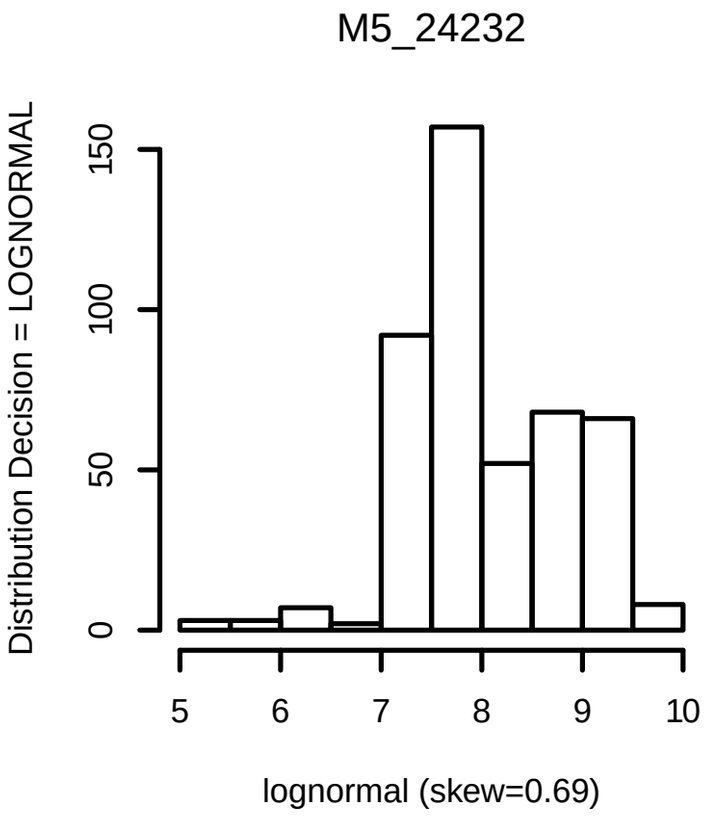

M5_03592
Distribution Decision = NORMAL
0
20
40
60
80
100
0
2000
6000
10000
normal (skew=0.034)

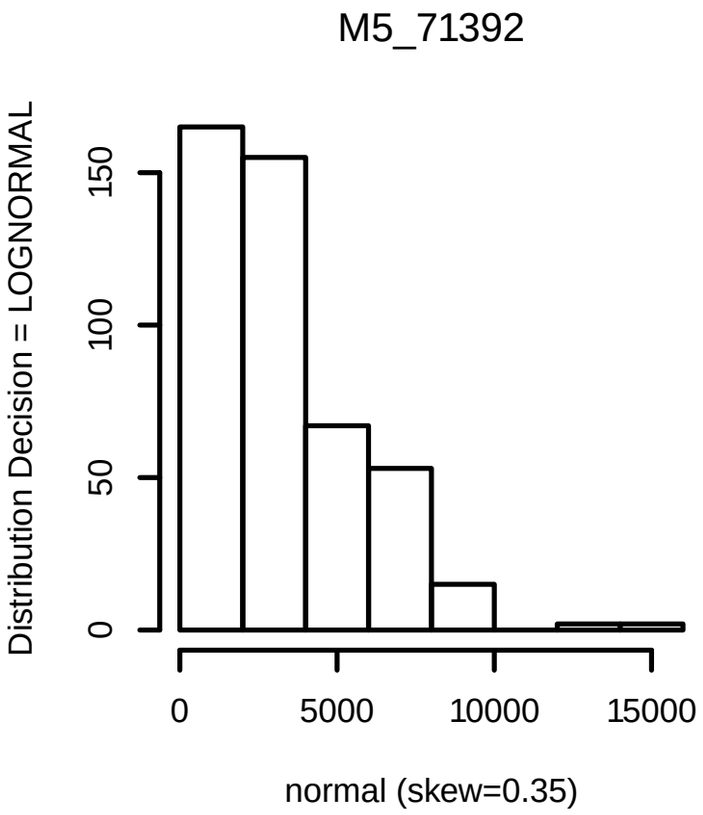

M5_03592
Distribution Decision = NORMAL
0
20
40
60
80
100
140
6
7
8
9
lognormal (skew=0.048)

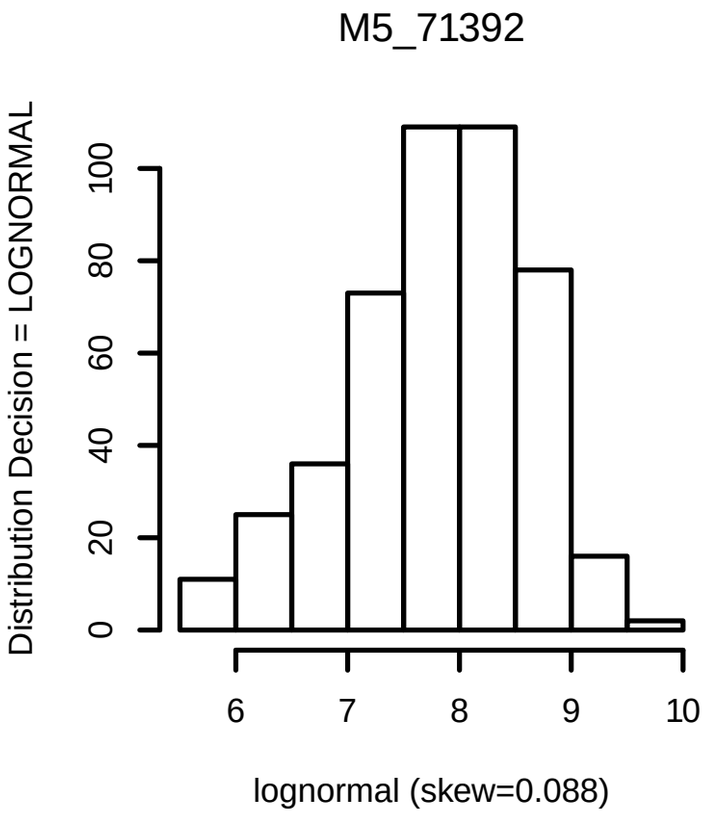

M5_26844
Distribution Decision = NORMAL
0
20
40
60
80
100
0
2000
6000
10000
normal (skew=0.043)

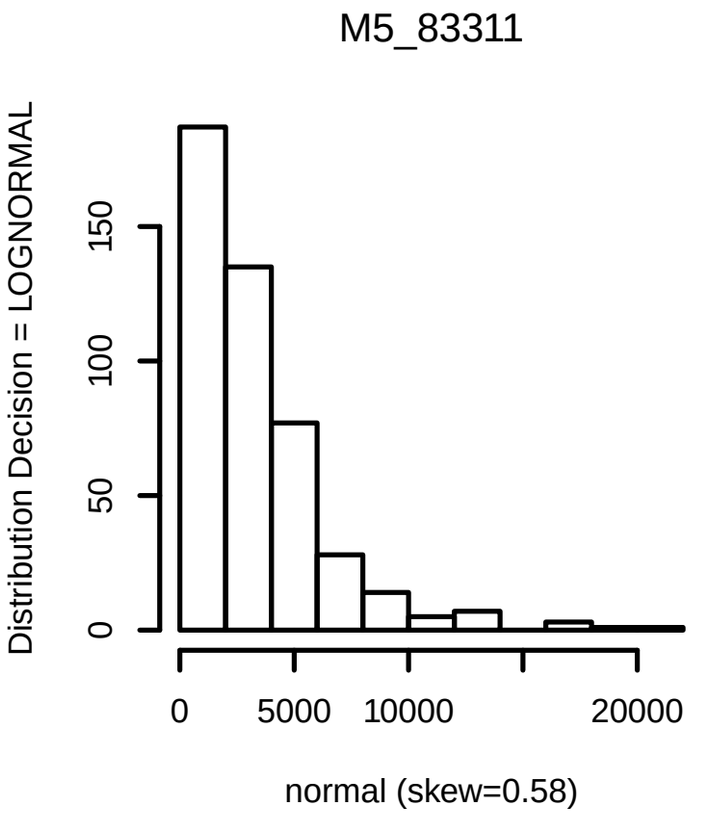

M5_26844
Distribution Decision = NORMAL
0
20
40
60
80
120
2
4
6
8
lognormal (skew=0.098)

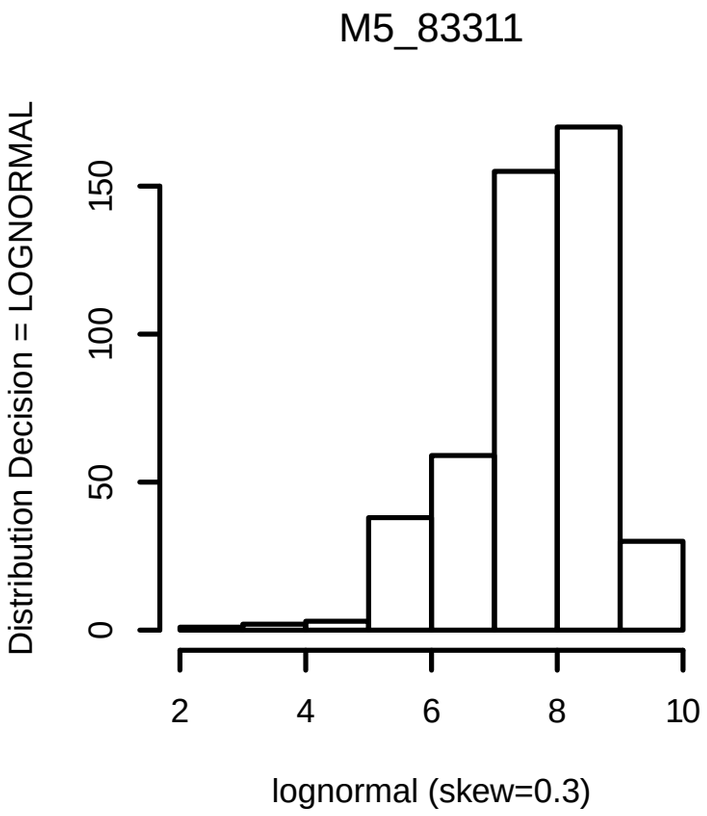

M5_24232
Distribution Decision = LOGNORMAL
0
50
100
150
0
5000
10000
15000
normal (skew=0.83)

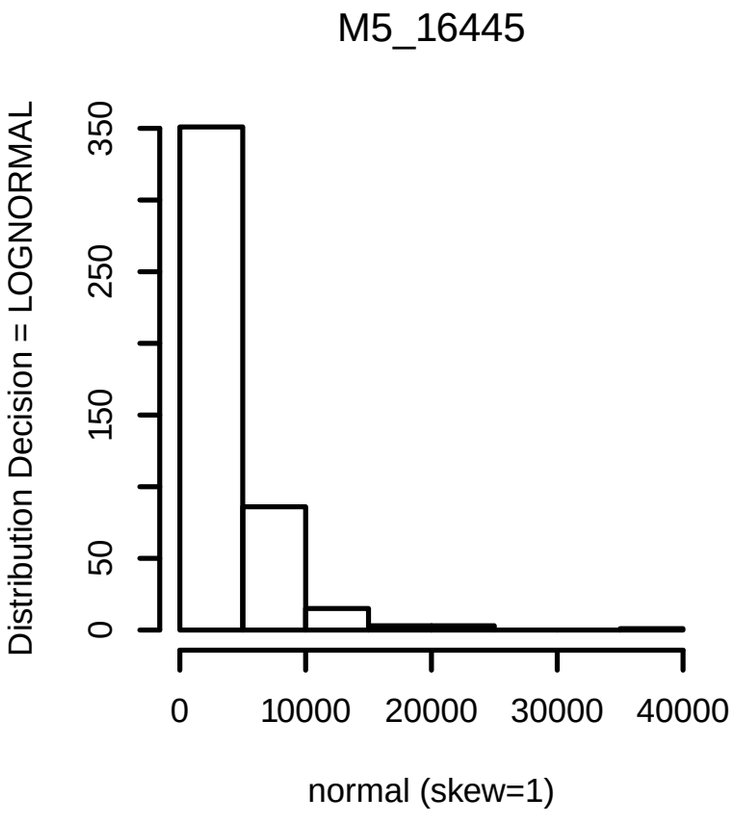

M5_24232
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
10
lognormal (skew=0.69)

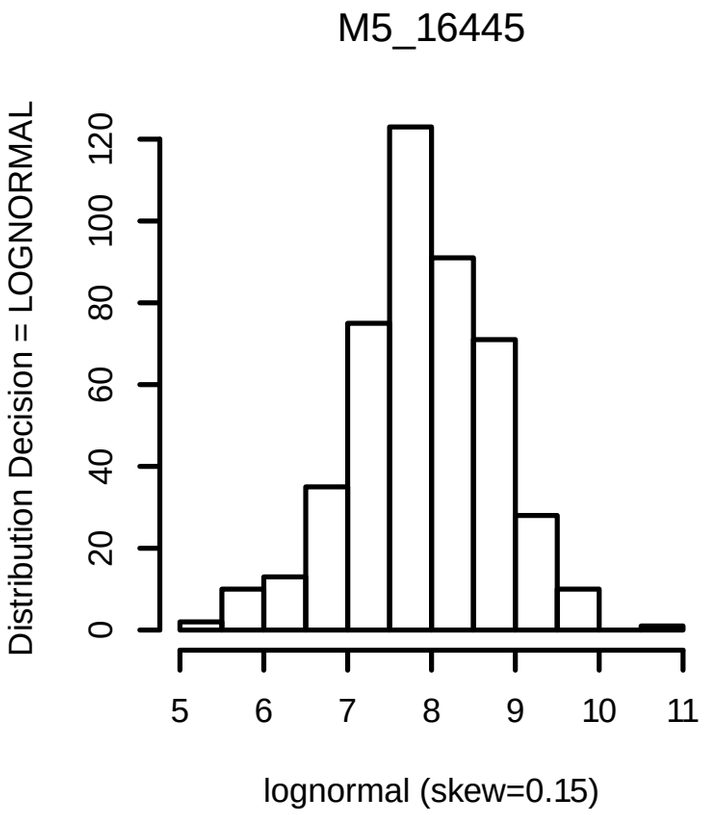

M5_71392
Distribution Decision = LOGNORMAL
0
50
100
150
0
5000
10000
15000
normal (skew=0.35)

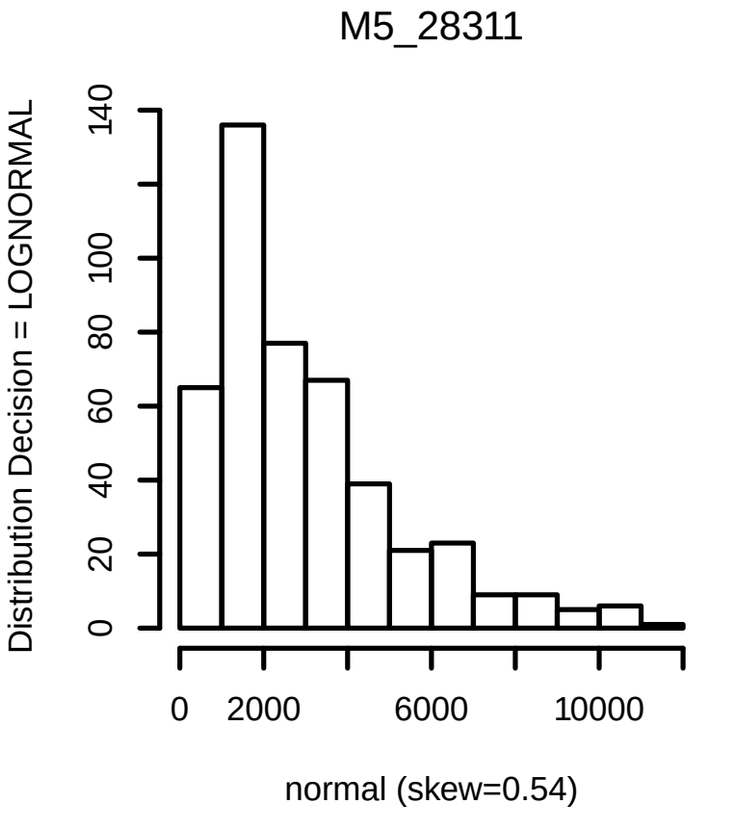

M5_71392
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
6
7
8
9
10
lognormal (skew=0.088)

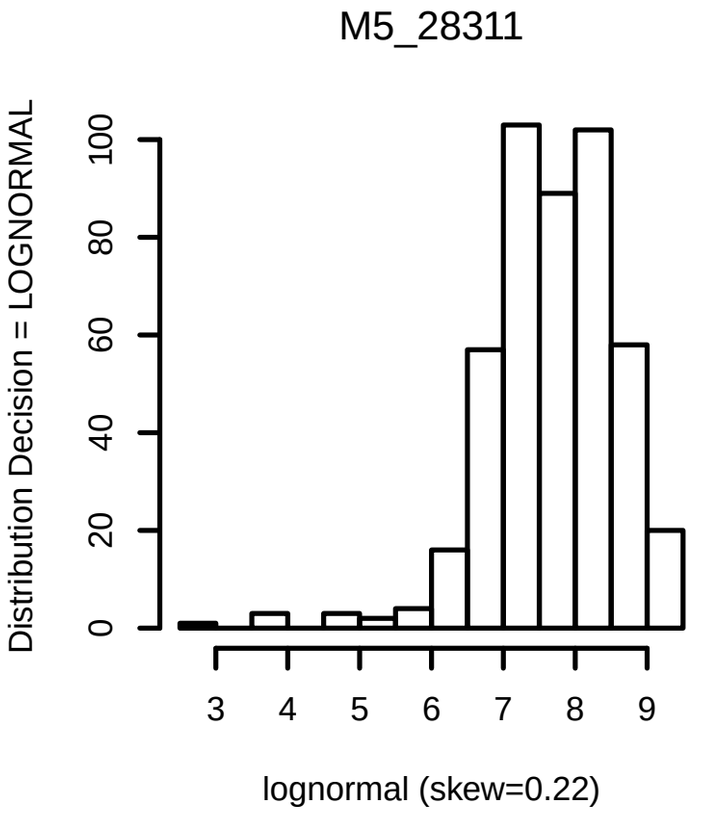

M5_83311
Distribution Decision = LOGNORMAL
0
50
100
150
0
5000
10000
20000
normal (skew=0.58)

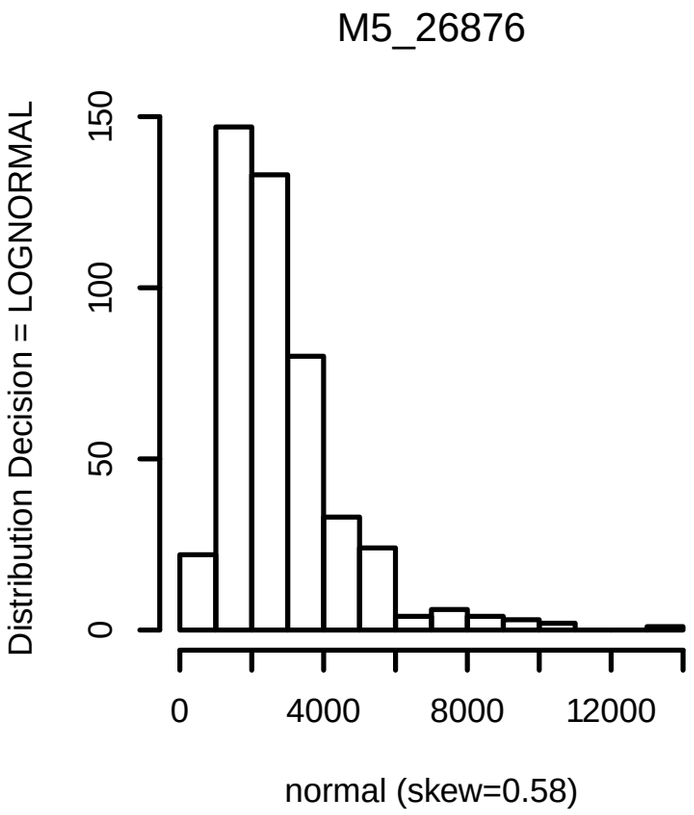

M5_83311
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=0.3)

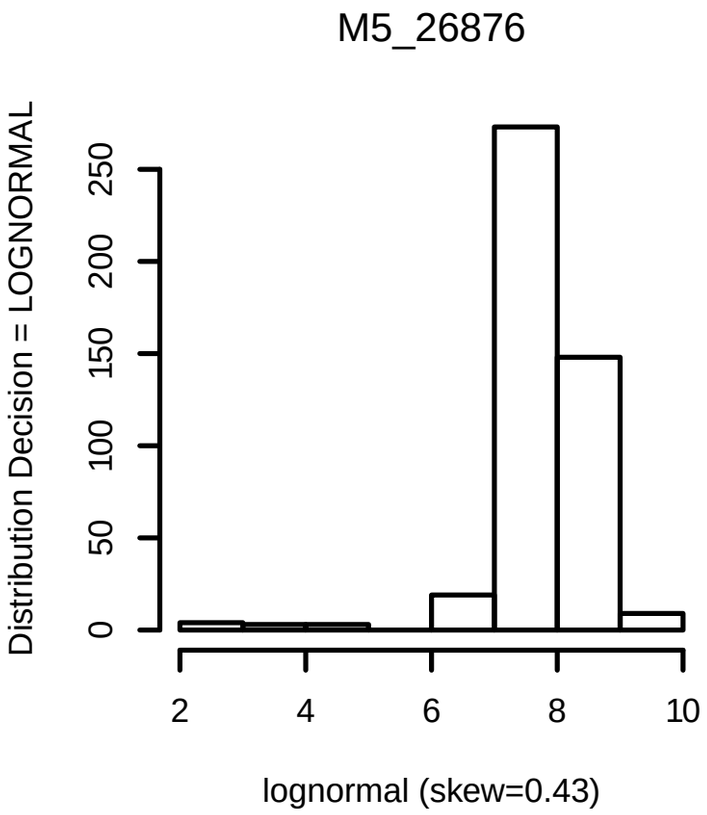

M5_16445
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
10000
20000
30000
40000
normal (skew=1)

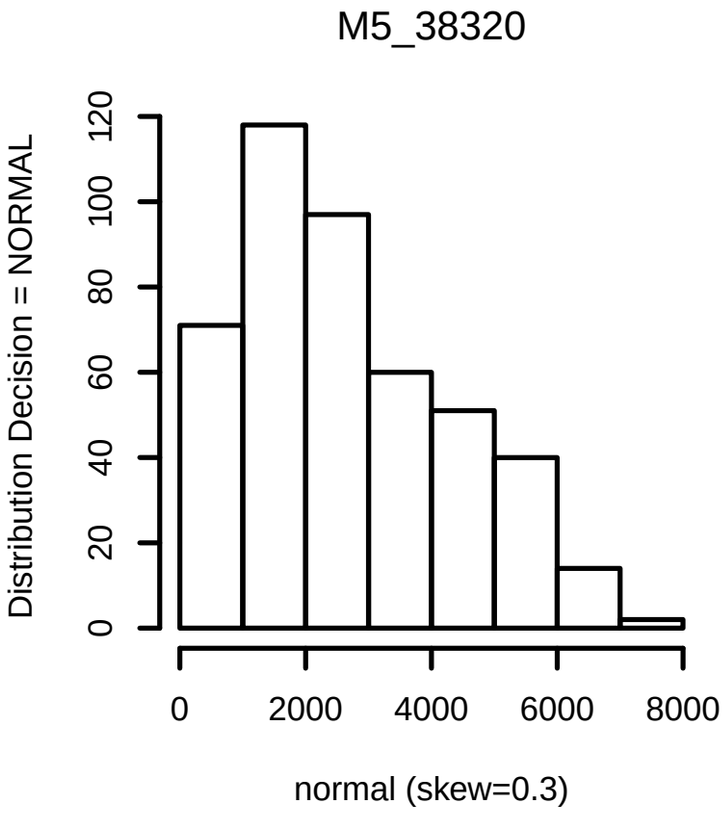

M5_16445
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
5
6
7
8
9
10
11
lognormal (skew=0.15)

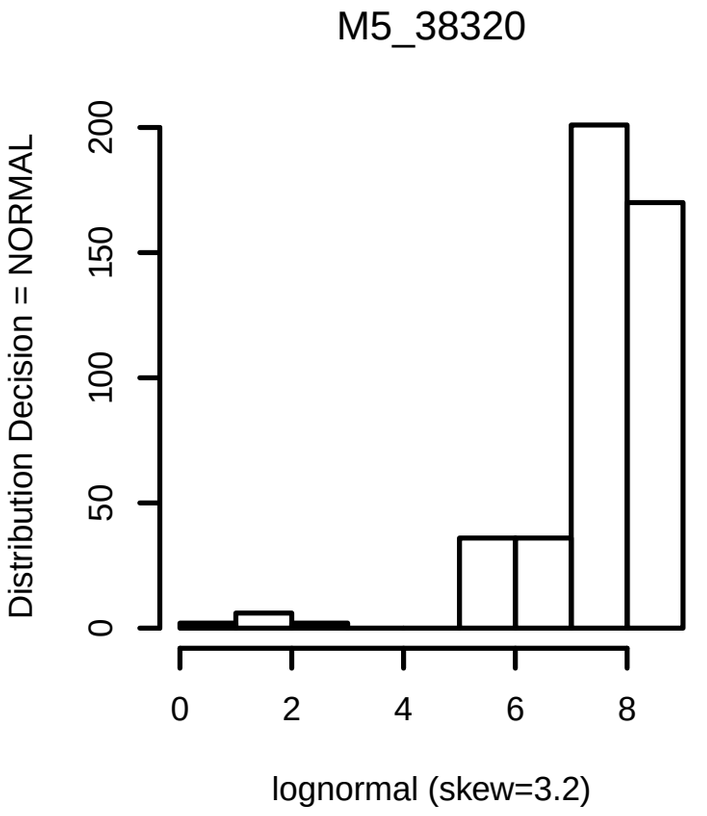

M5_28311
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
0
2000
6000
10000
normal (skew=0.54)

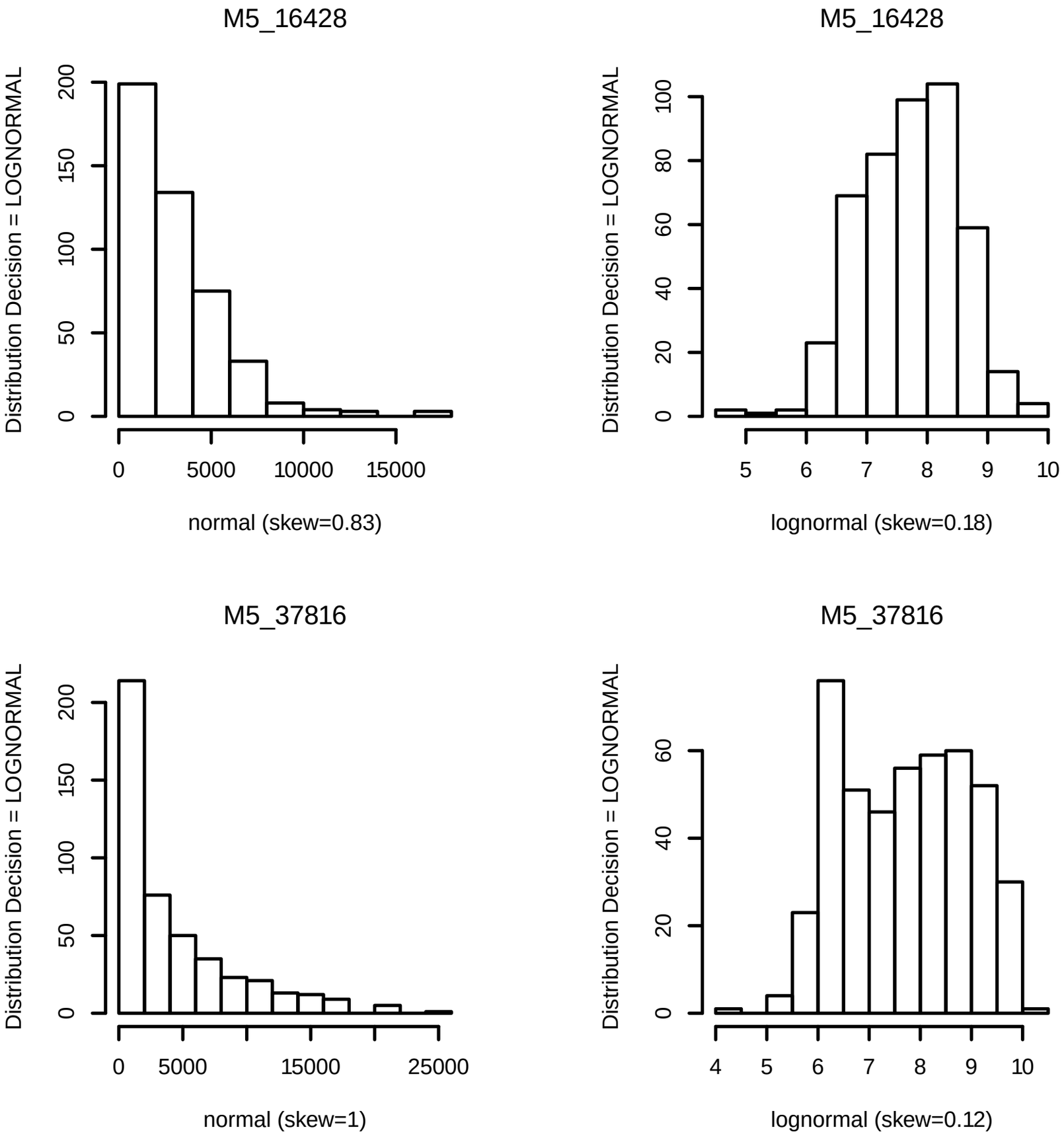

M5_28311
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
3
4
5
6
7
8
9
lognormal (skew=0.22)

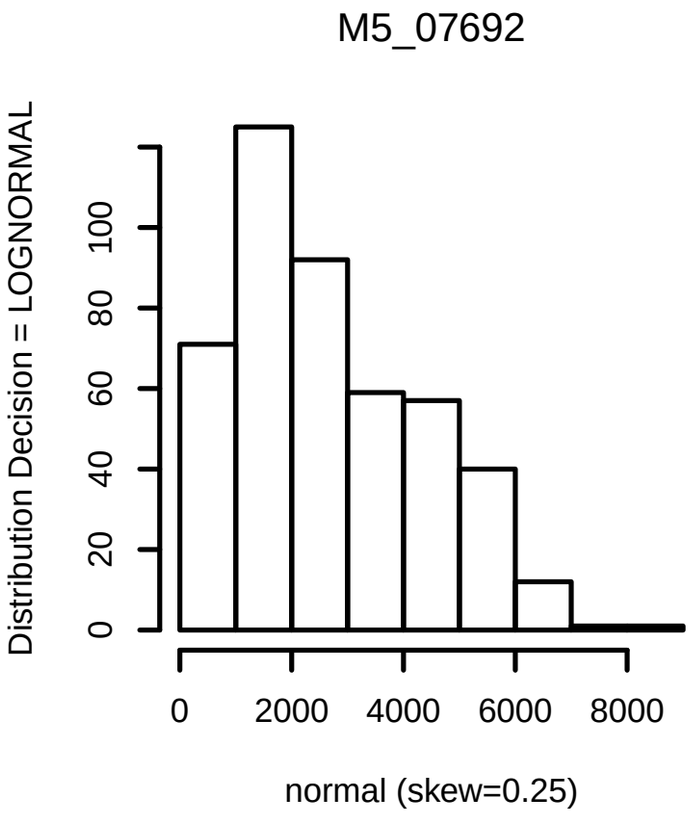

M5_26876
Distribution Decision = LOGNORMAL
0
50
100
150
0
4000
8000
12000
normal (skew=0.58)

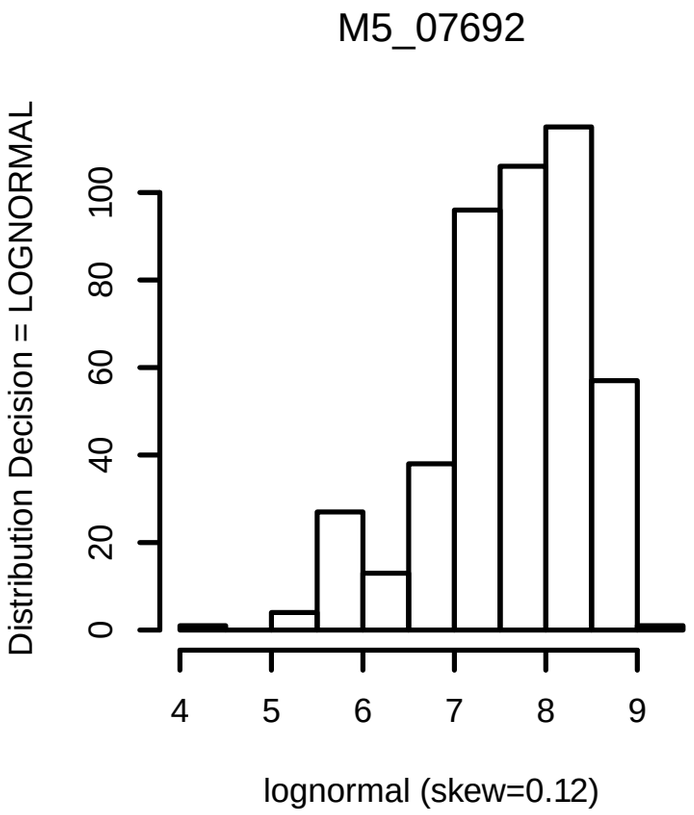

M5_26876
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
2
4
6
8
10
lognormal (skew=0.43)

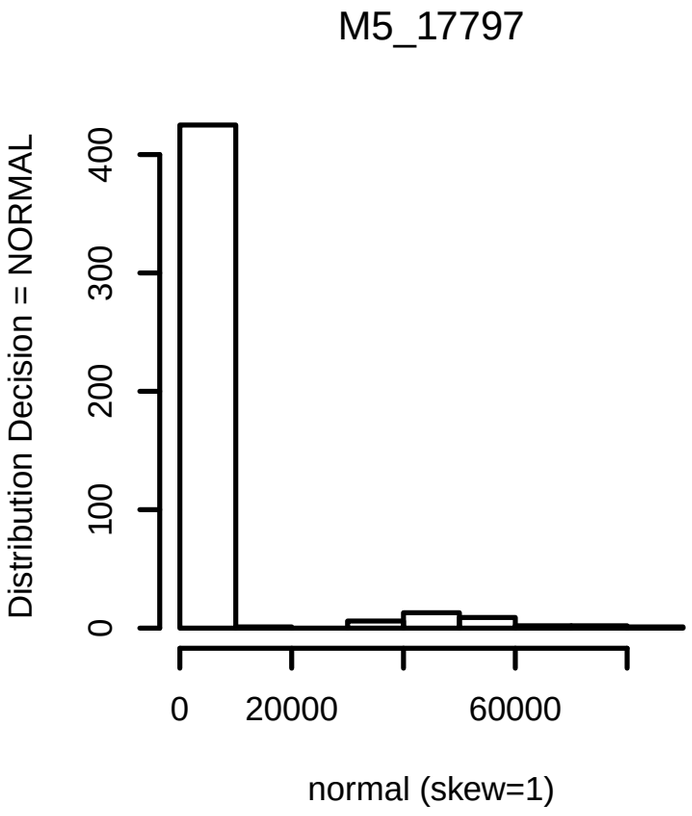

M5_38320
Distribution Decision = NORMAL
0
20
40
60
80
100
120
0
2000
4000
6000
8000
normal (skew=0.3)

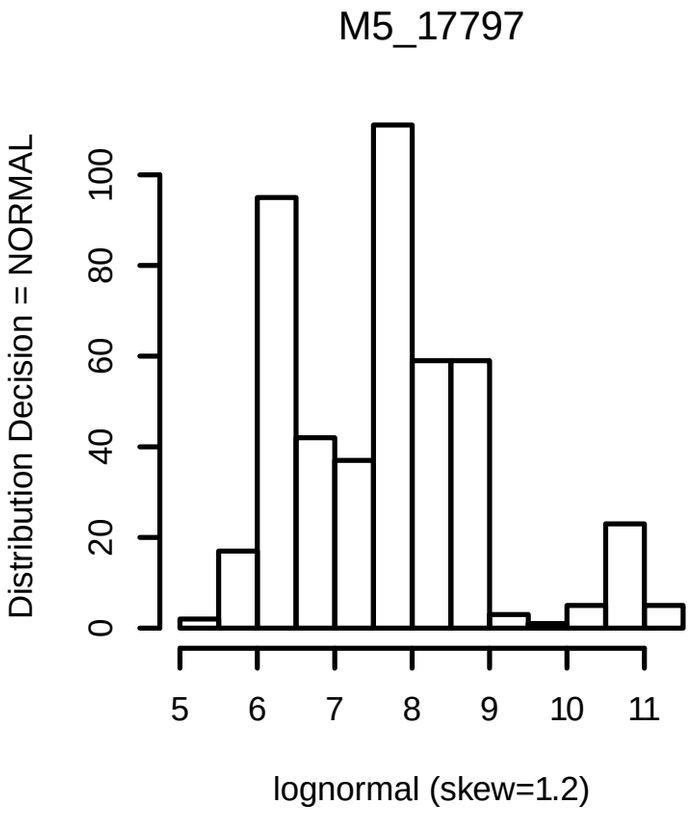

M5_38320
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=3.2)

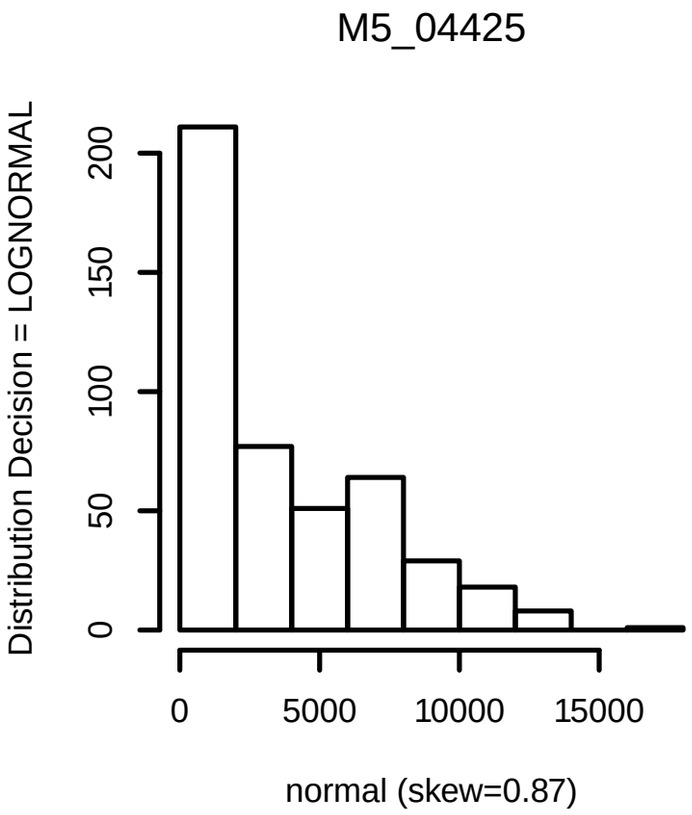

M5_16428
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
5000
10000
15000
normal (skew=0.83)
M5_16428
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
5
6
7
8
9
10
lognormal (skew=0.18)
M5_37816
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
5000
15000
25000
normal (skew=1)
M5_37816
Distribution Decision = LOGNORMAL
0
20
40
60
4
5
6
7
8
9
10
lognormal (skew=0.12)

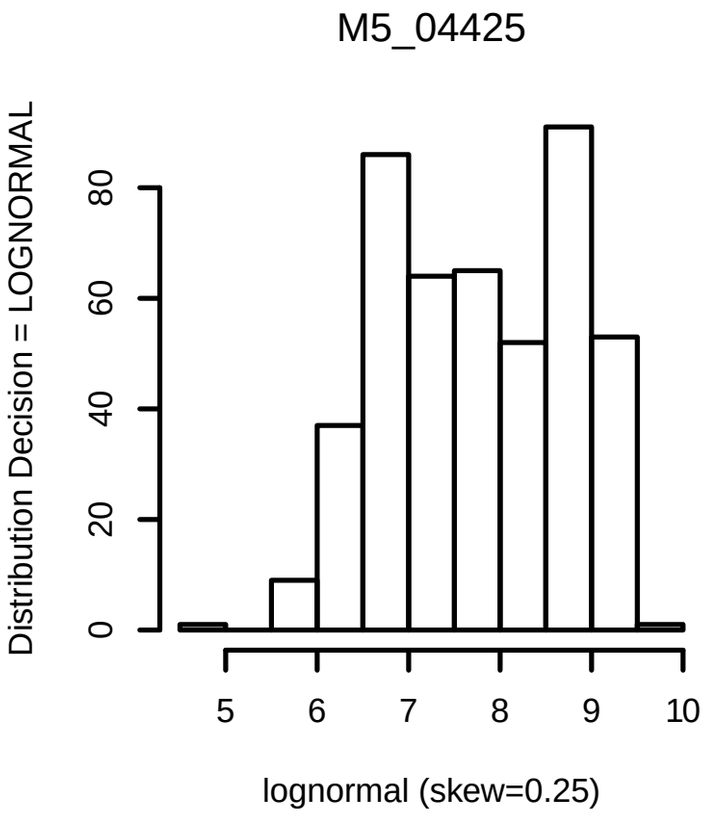

M5_07692
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2000
4000
6000
8000
normal (skew=0.25)

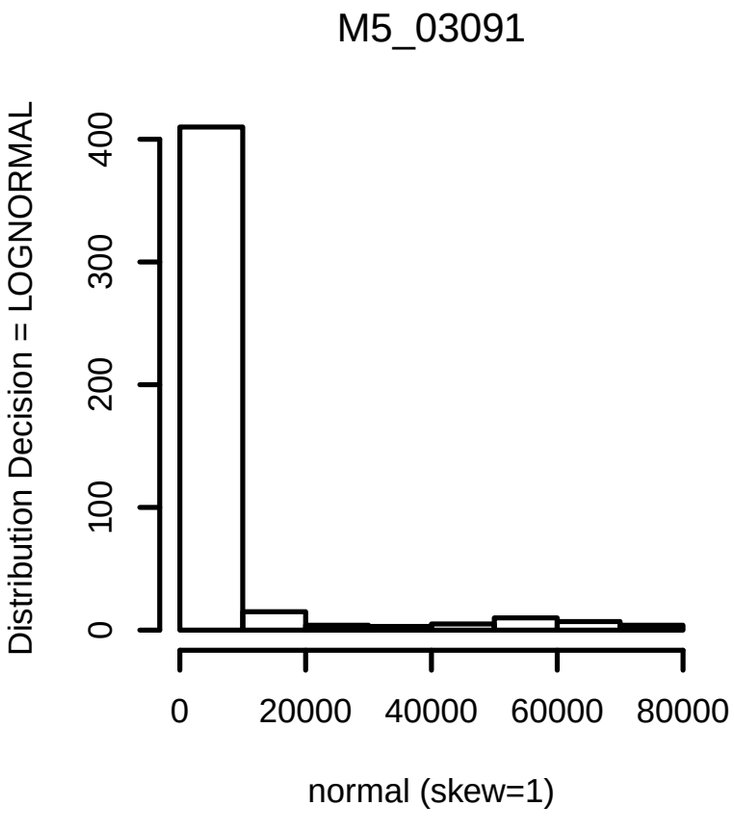

M5_07692
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
9
lognormal (skew=0.12)

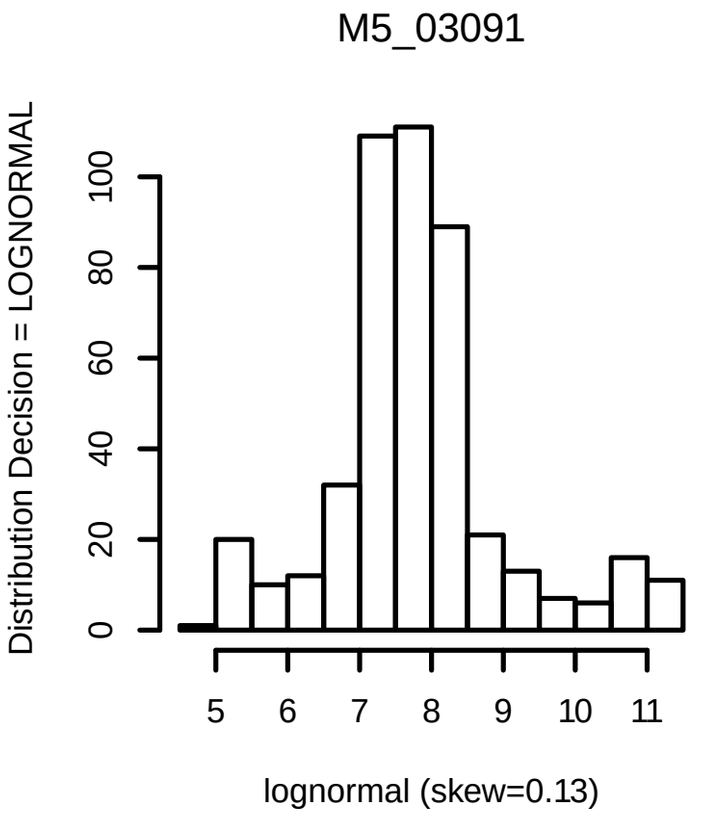

M5_17797
Distribution Decision = NORMAL
0
100
200
300
400
0
20000
60000
normal (skew=1)

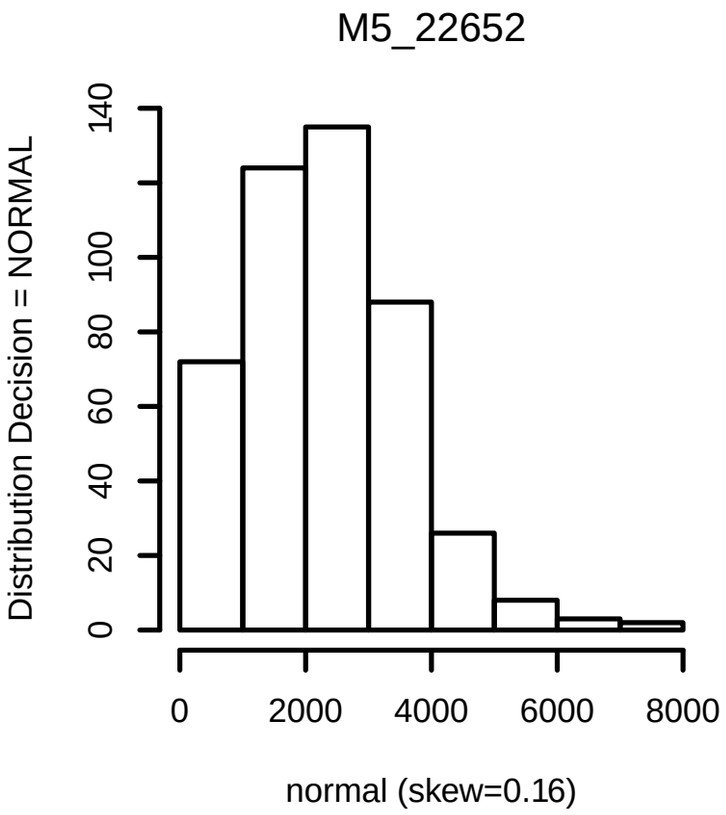

M5_17797
Distribution Decision = NORMAL
0
20
40
60
80
100
5
6
7
8
9
10
11
lognormal (skew=1.2)

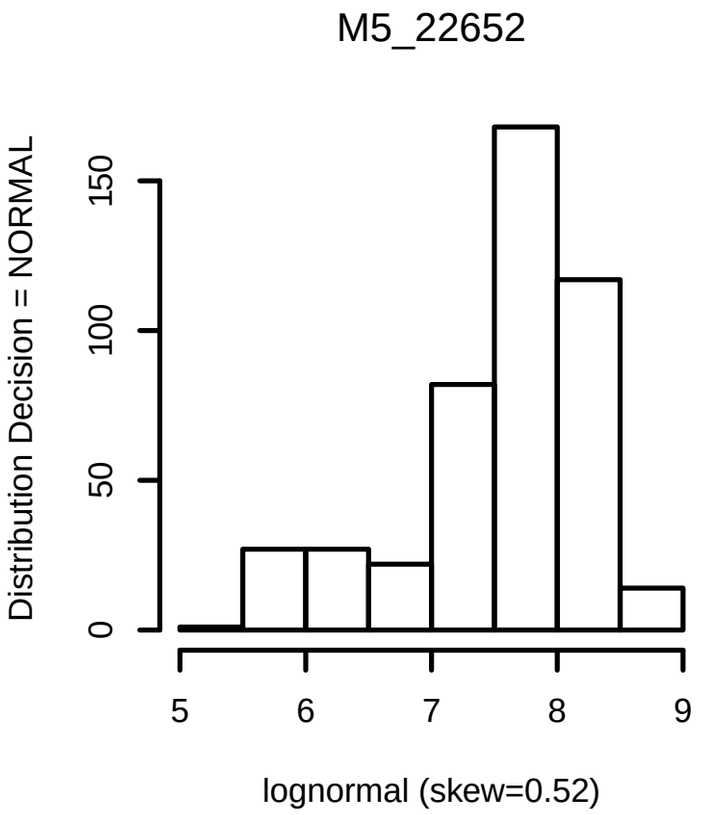

M5_04425
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
5000
10000
15000
normal (skew=0.87)

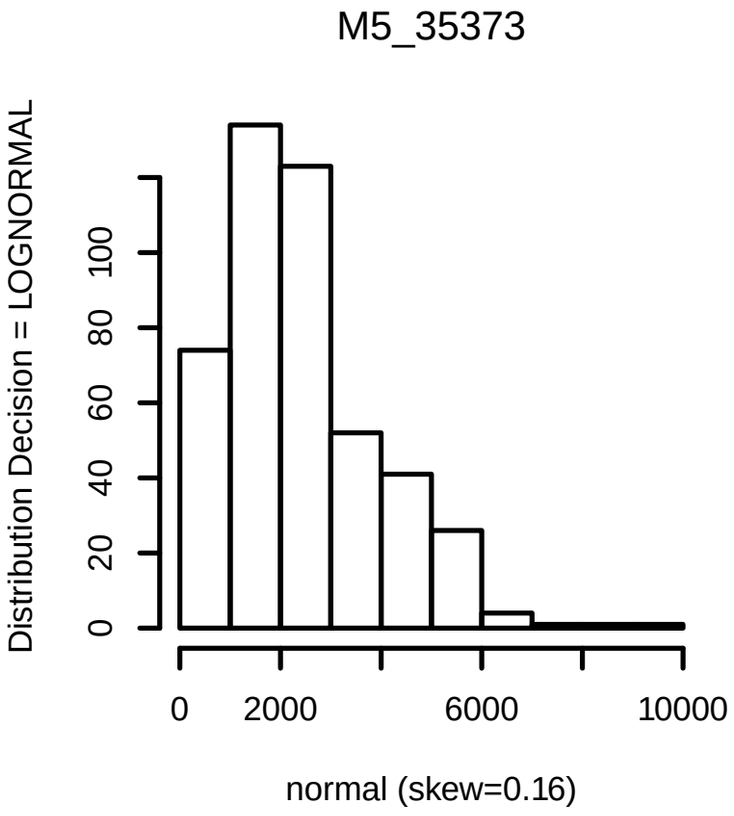

M5_04425
Distribution Decision = LOGNORMAL
0
20
40
60
80
5
6
7
8
9
10
lognormal (skew=0.25)

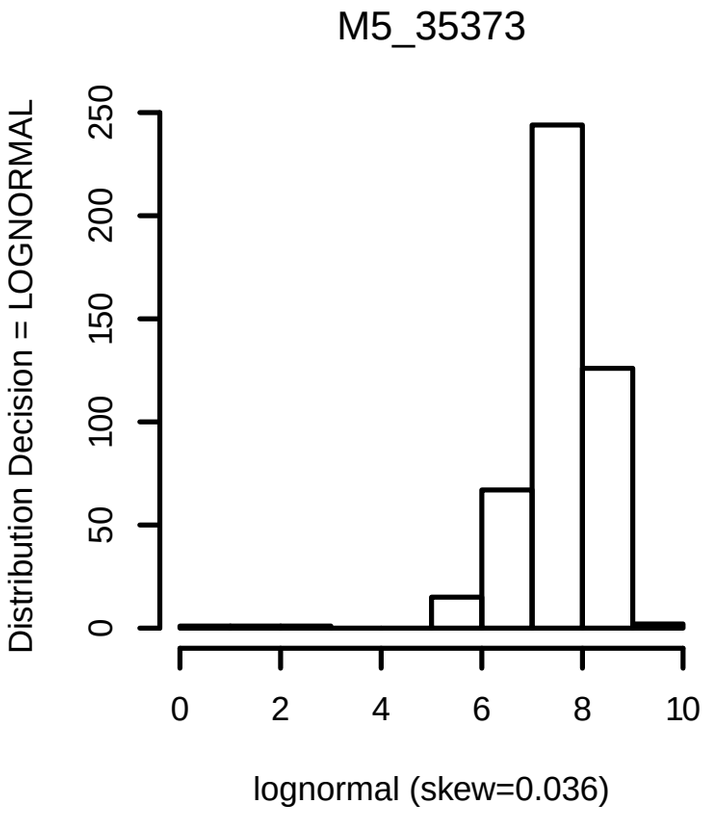

M5_03091
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
20000
40000
60000
80000
normal (skew=1)

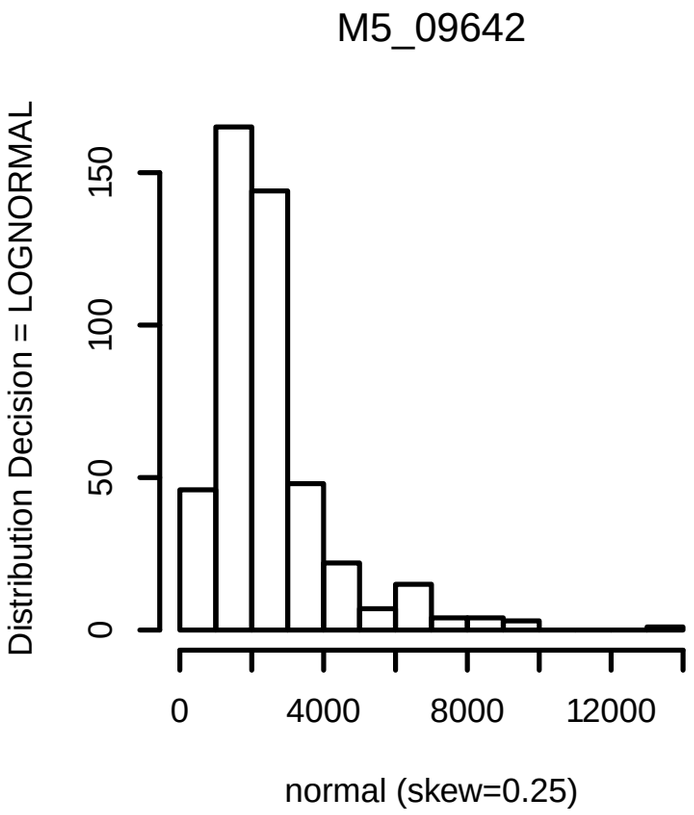

M5_03091
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
5
6
7
8
9
10
11
lognormal (skew=0.13)

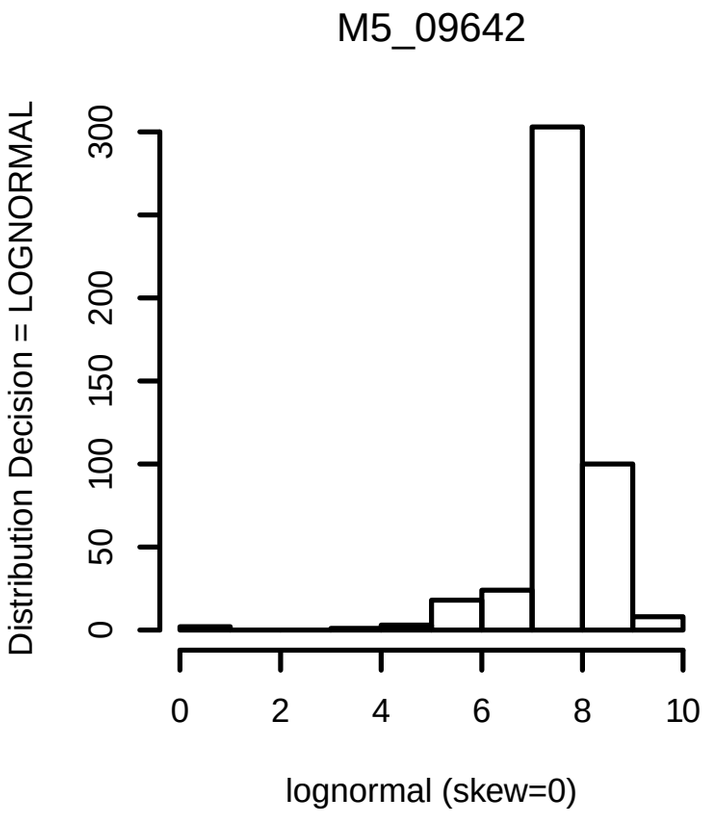

M5_22652
Distribution Decision = NORMAL
0
20
40
60
80
100
140
0
2000
4000
6000
8000
normal (skew=0.16)

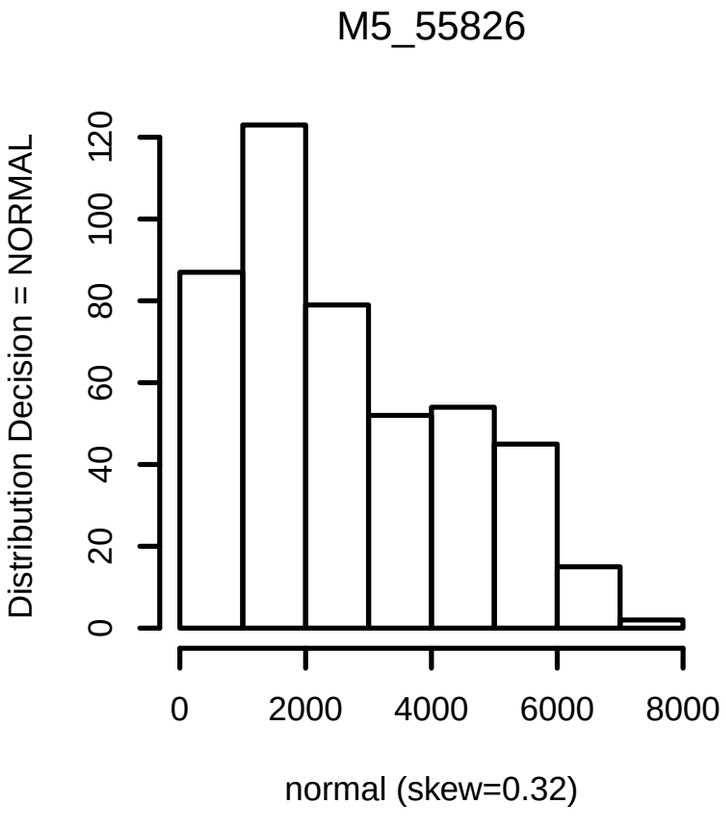

M5_22652
Distribution Decision = NORMAL
0
50
100
150
5
6
7
8
9
lognormal (skew=0.52)

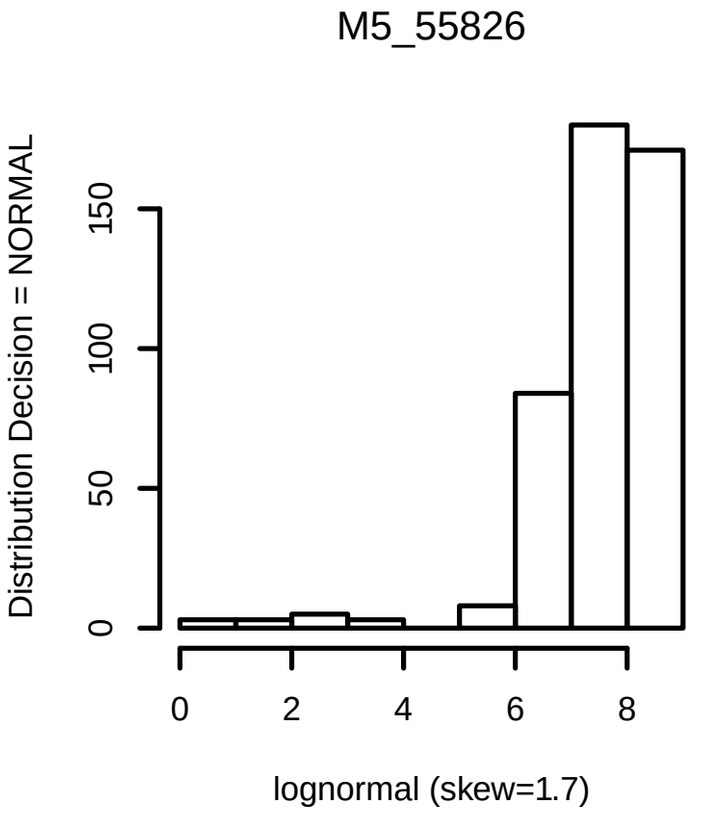

M5_35373
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2000
6000
10000
normal (skew=0.16)

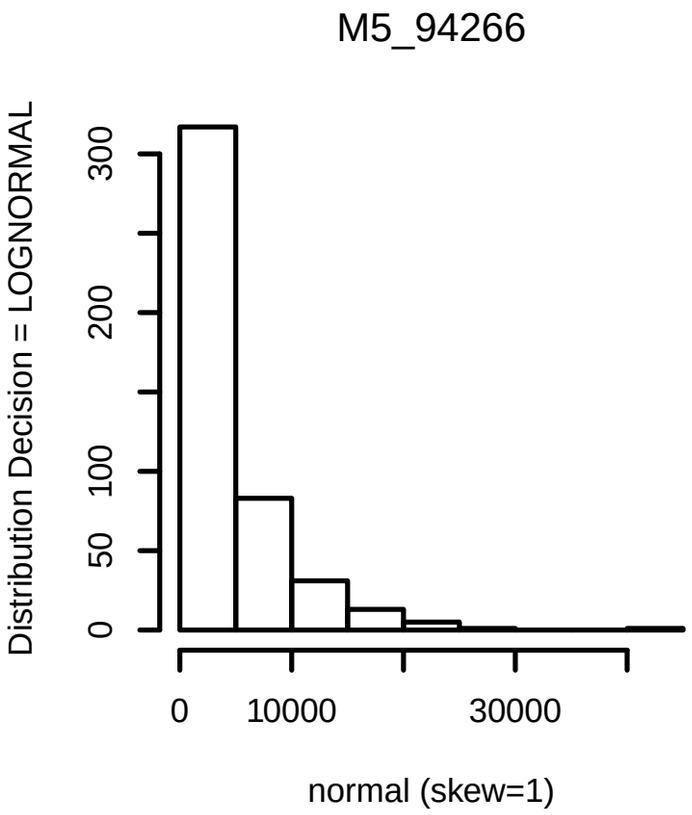

M5_35373
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
10
lognormal (skew=0.036)

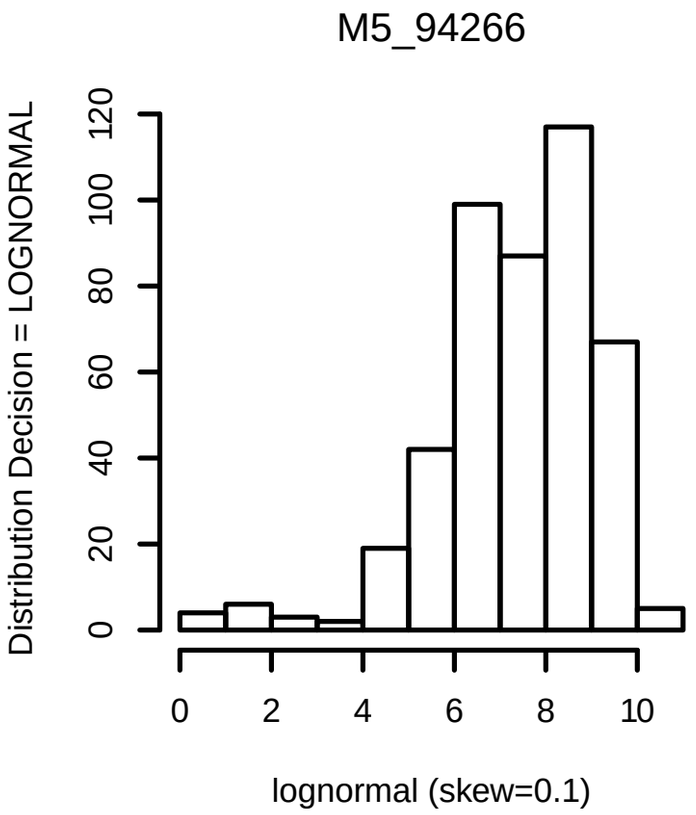

M5_09642
Distribution Decision = LOGNORMAL
0
50
100
150
0
4000
8000
12000
normal (skew=0.25)

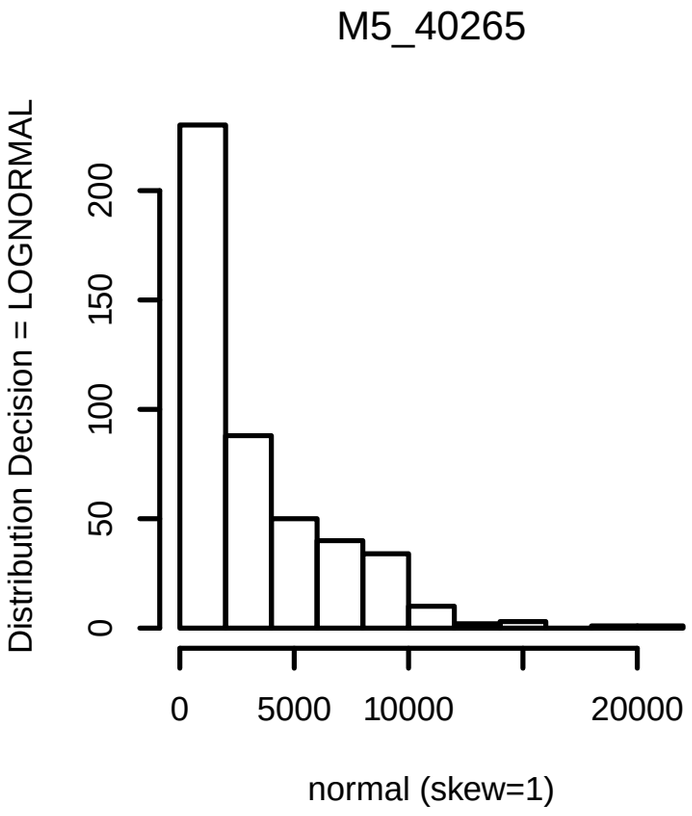

M5_09642
Distribution Decision = LOGNORMAL
0
50
100
150
200
300
0
2
4
6
8
10
lognormal (skew=0)

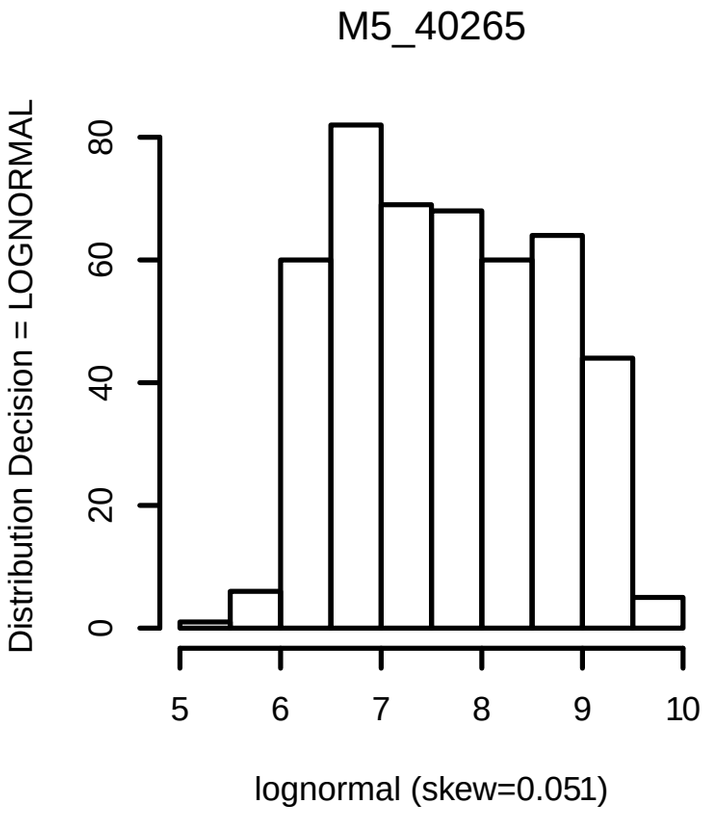

M5_55826
Distribution Decision = NORMAL
0
20
40
60
80
100
120
0
2000
4000
6000
8000
normal (skew=0.32)

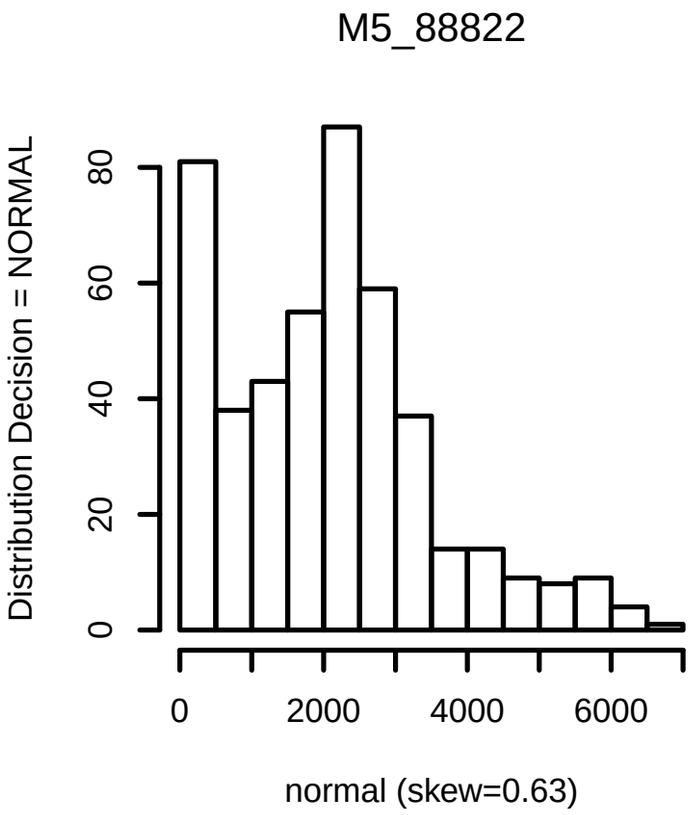

M5_55826
Distribution Decision = NORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=1.7)

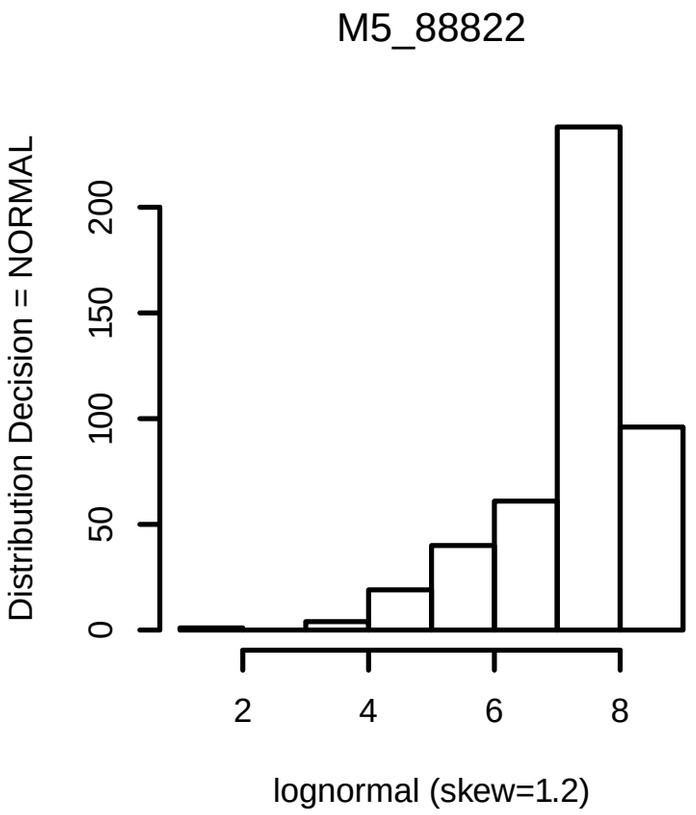

M5_94266
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
10000
30000
normal (skew=1)

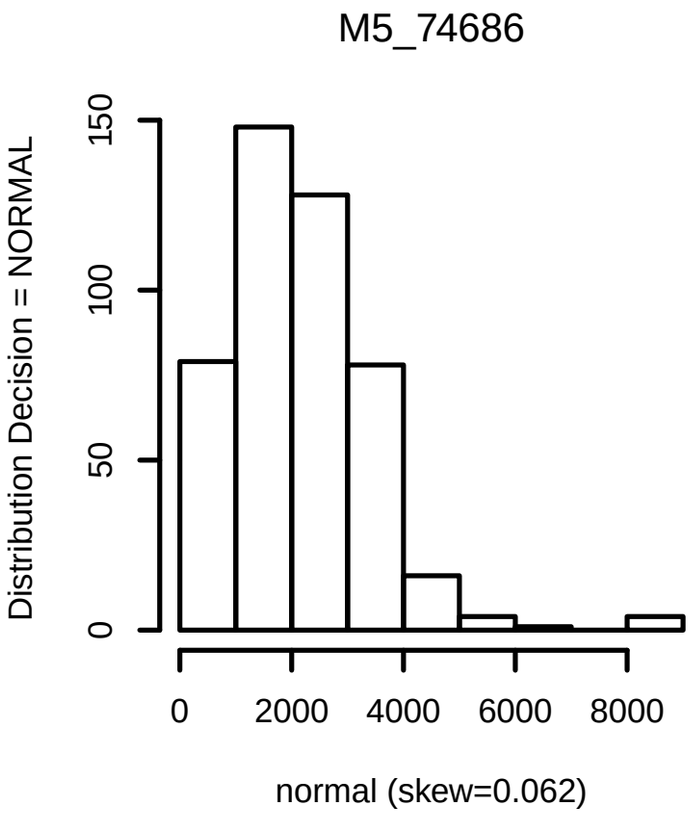

M5_94266
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
2
4
6
8
10
lognormal (skew=0.1)

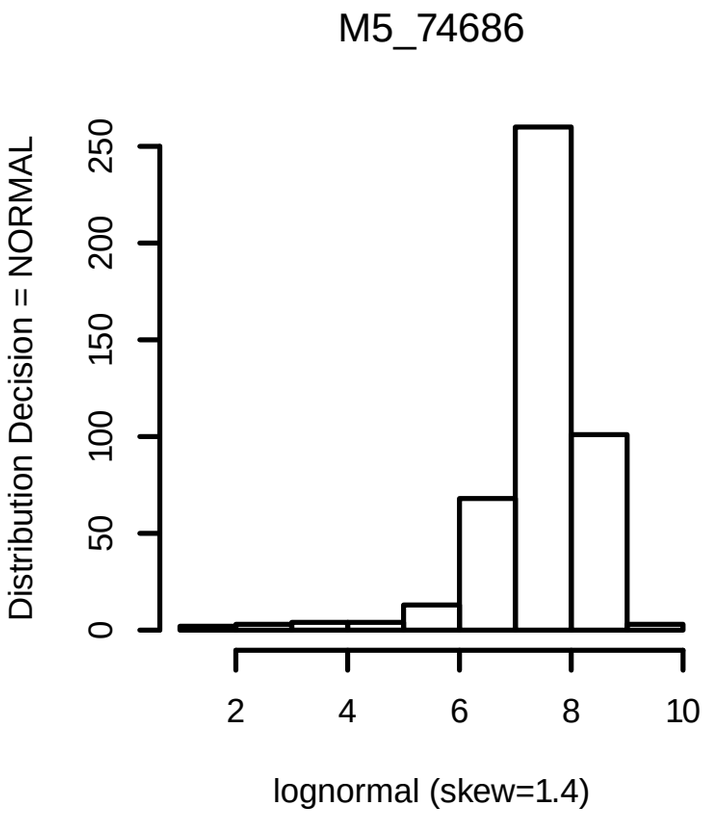

M5_40265
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
5000
10000
20000
normal (skew=1)

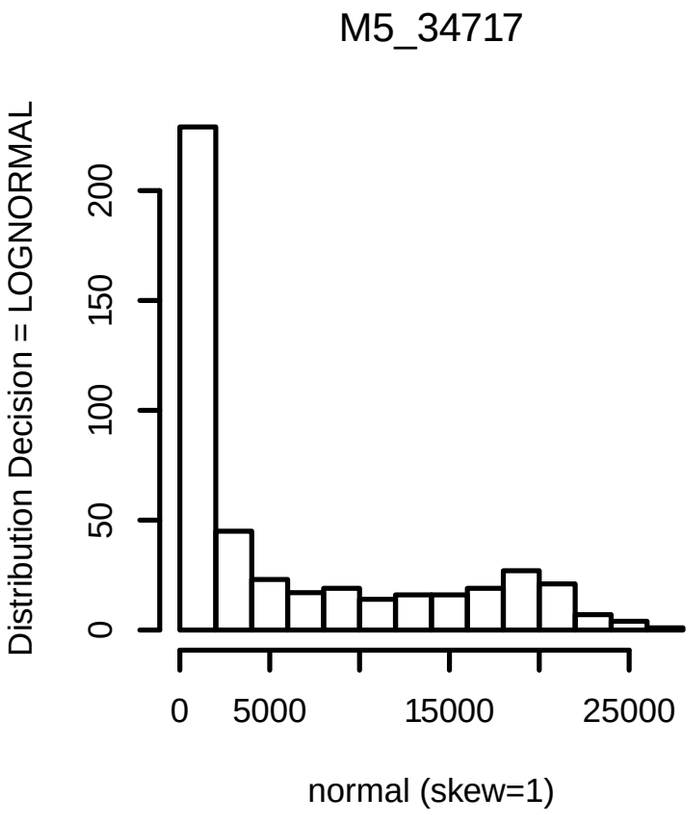

M5_40265
Distribution Decision = LOGNORMAL
0
20
40
60
80
5
6
7
8
9
10
lognormal (skew=0.051)

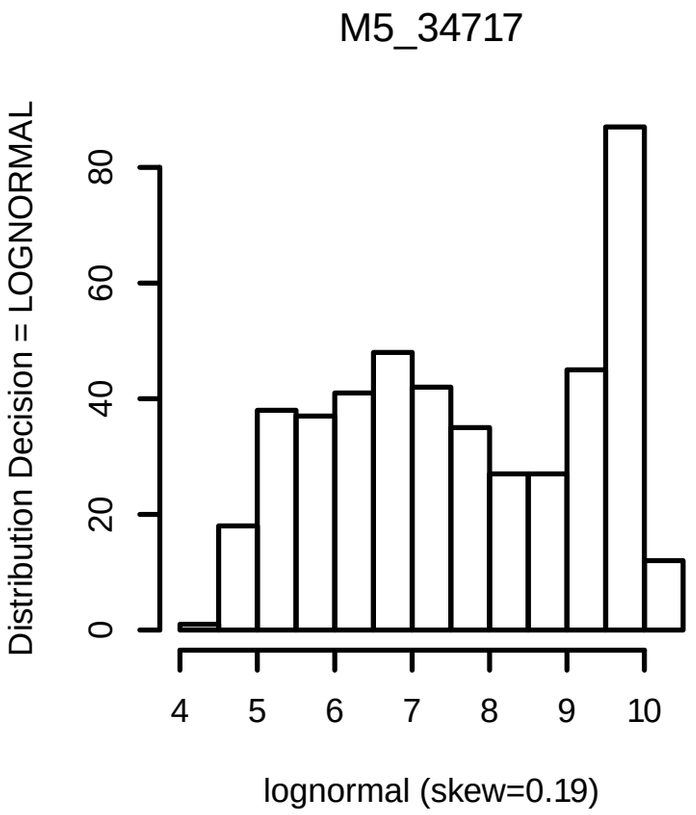

M5_88822
Distribution Decision = NORMAL
0
20
40
60
80
0
2000
4000
6000
normal (skew=0.63)

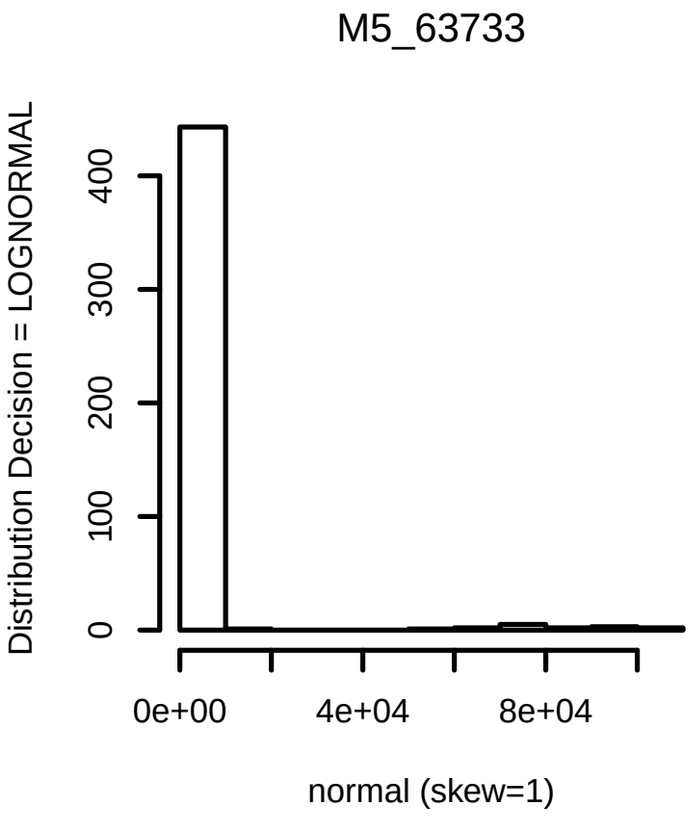

M5_88822
Distribution Decision = NORMAL
0
50
100
150
200
2
4
6
8
lognormal (skew=1.2)

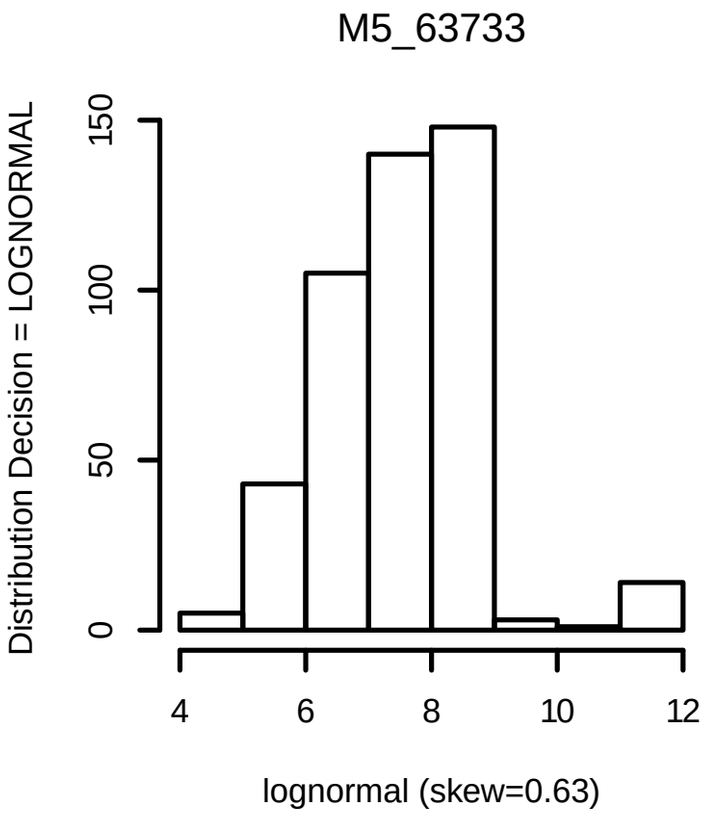

M5_74686
Distribution Decision = NORMAL
0
50
100
150
0
2000
4000
6000
8000
normal (skew=0.062)

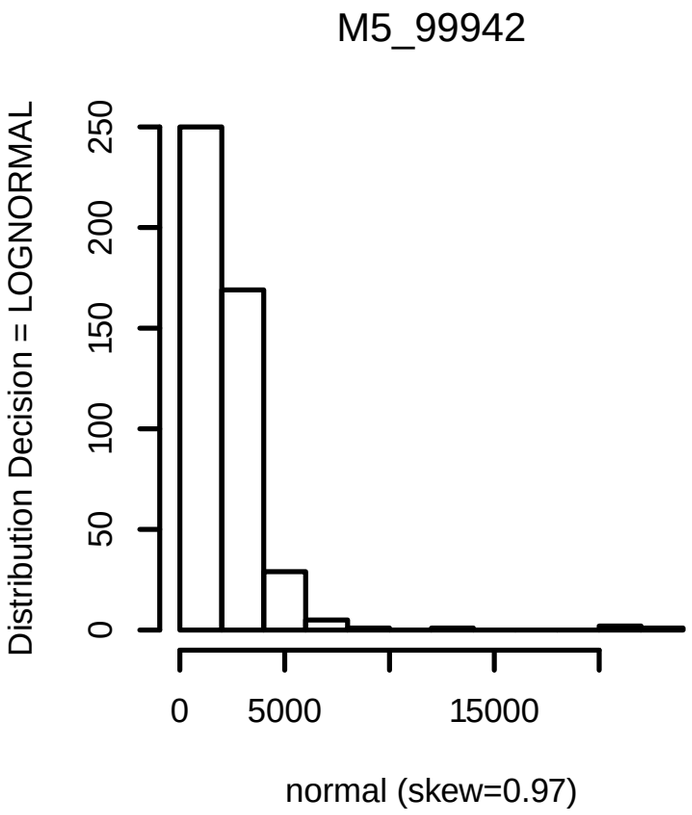

M5_74686
Distribution Decision = NORMAL
0
50
100
150
200
250
2
4
6
8
10
lognormal (skew=1.4)

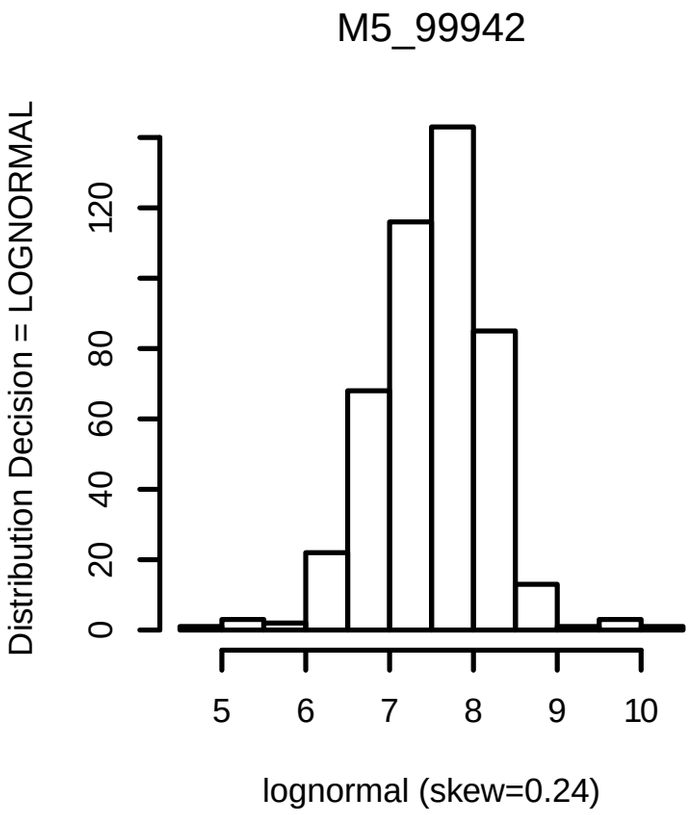

M5_34717
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
5000
15000
25000
normal (skew=1)

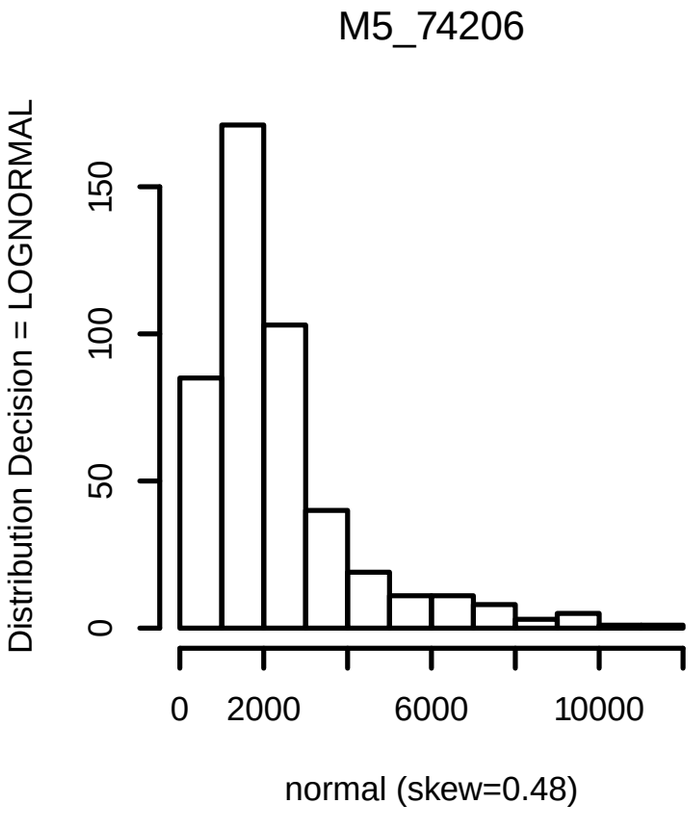

M5_34717
Distribution Decision = LOGNORMAL
0
20
40
60
80
4
5
6
7
8
9
10
lognormal (skew=0.19)

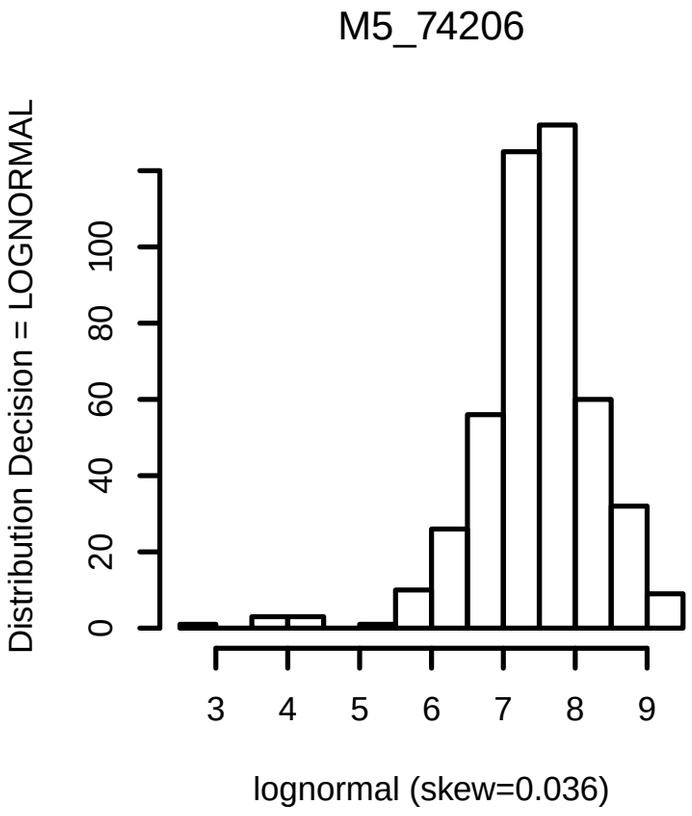

M5_63733
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
4e+04
8e+04
normal (skew=1)

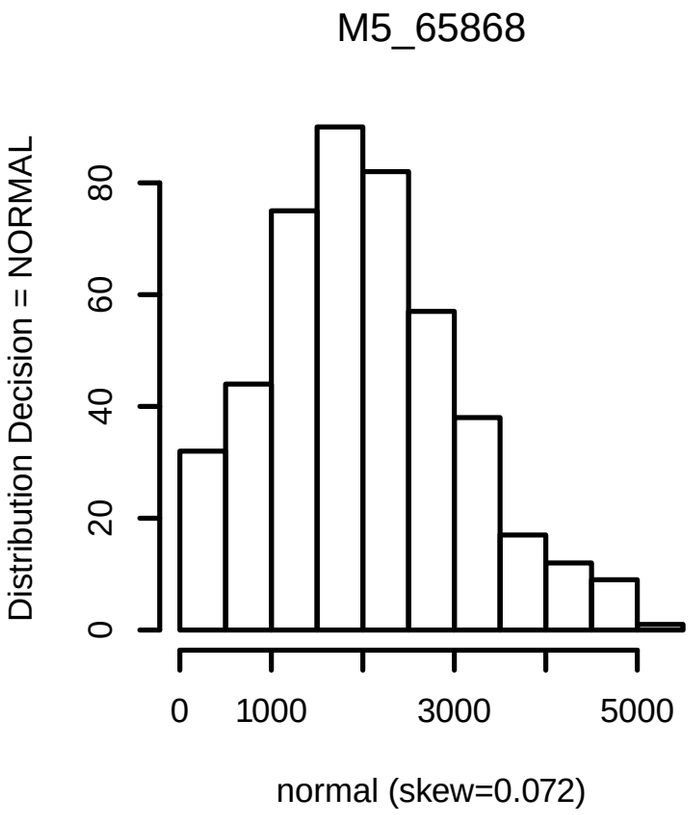

M5_63733
Distribution Decision = LOGNORMAL
0
50
100
150
4
6
8
10
12
lognormal (skew=0.63)

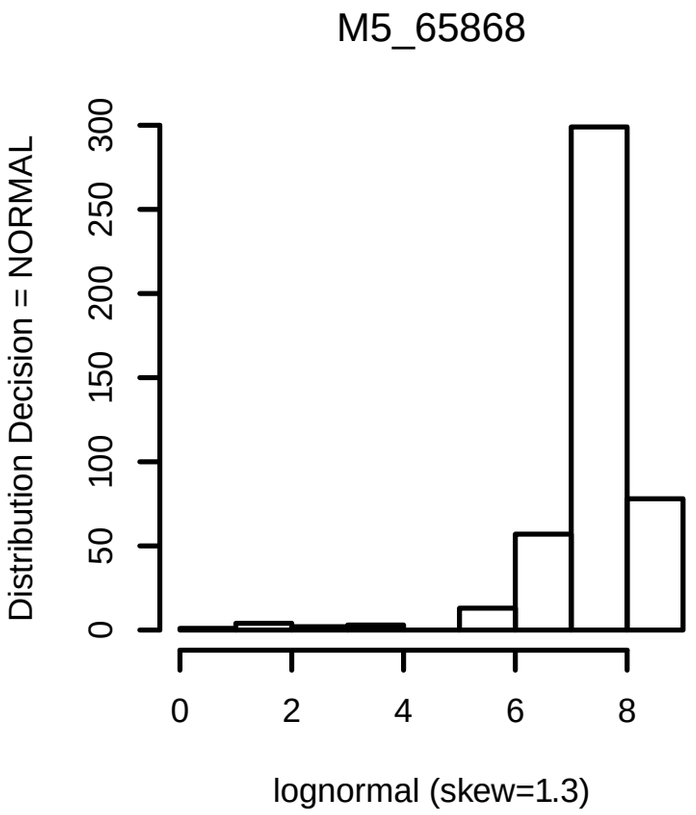

M5_99942
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
15000
normal (skew=0.97)

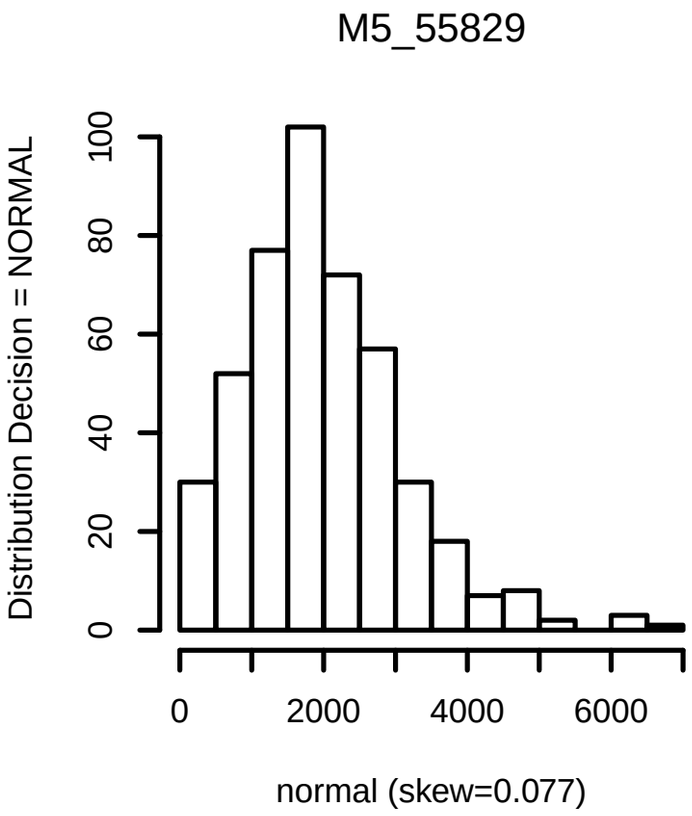

M5_99942
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
5
6
7
8
9
10
lognormal (skew=0.24)

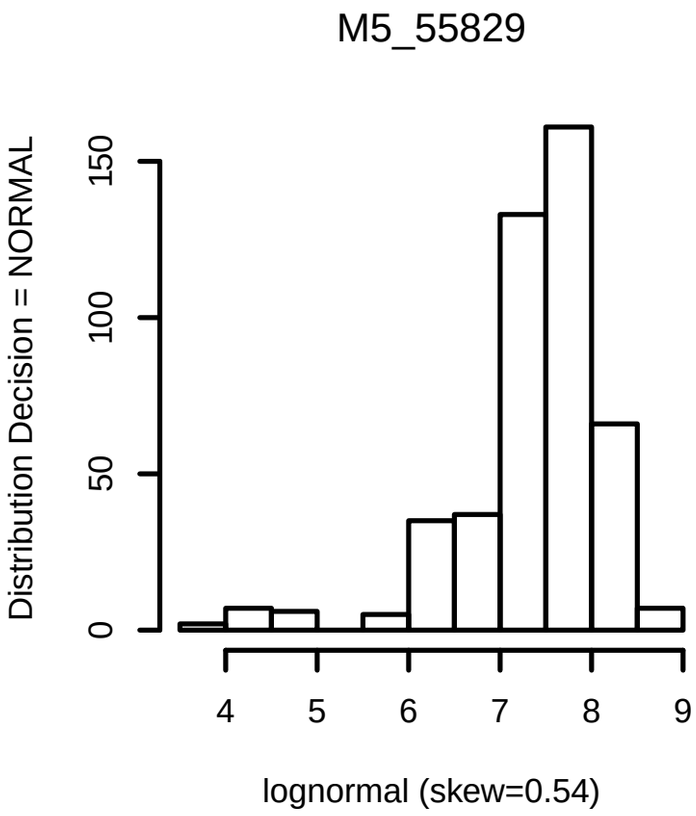

M5_74206
Distribution Decision = LOGNORMAL
0
50
100
150
0
2000
6000
10000
normal (skew=0.48)

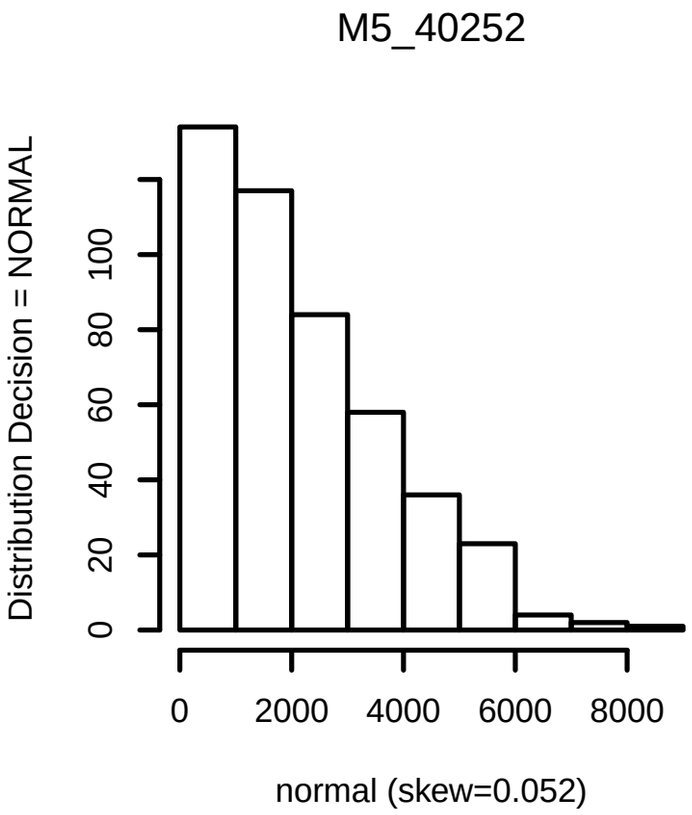

M5_74206
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
3
4
5
6
7
8
9
lognormal (skew=0.036)

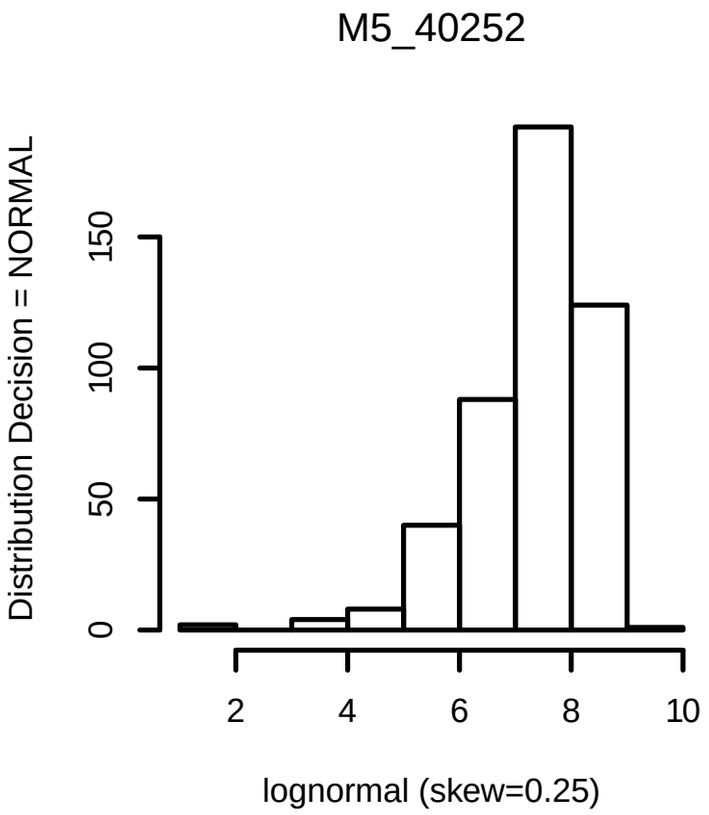

M5_65868
Distribution Decision = NORMAL
0
20
40
60
80
0
1000
3000
5000
normal (skew=0.072)

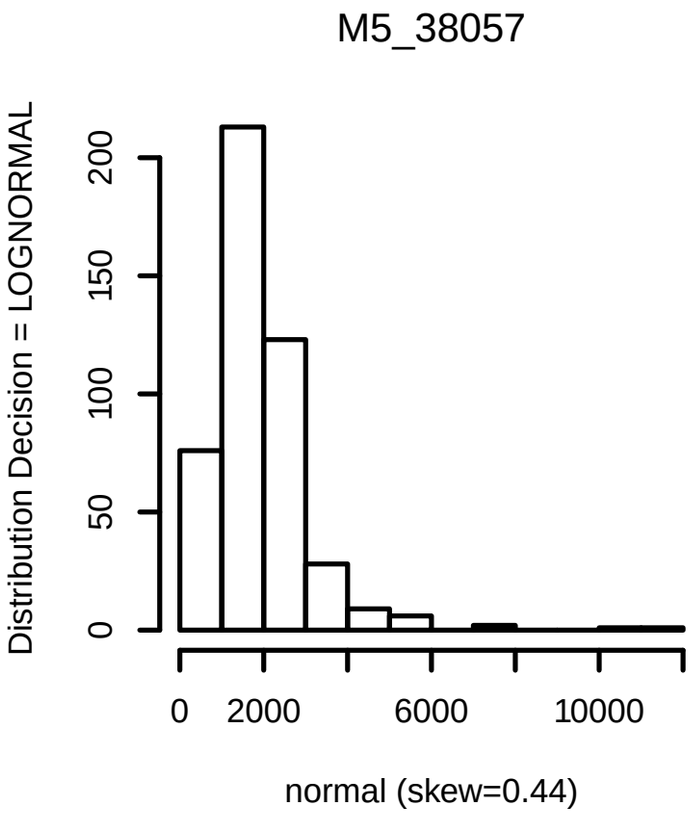

M5_65868
Distribution Decision = NORMAL
0
50
100
150
200
250
300
0
2
4
6
8
lognormal (skew=1.3)

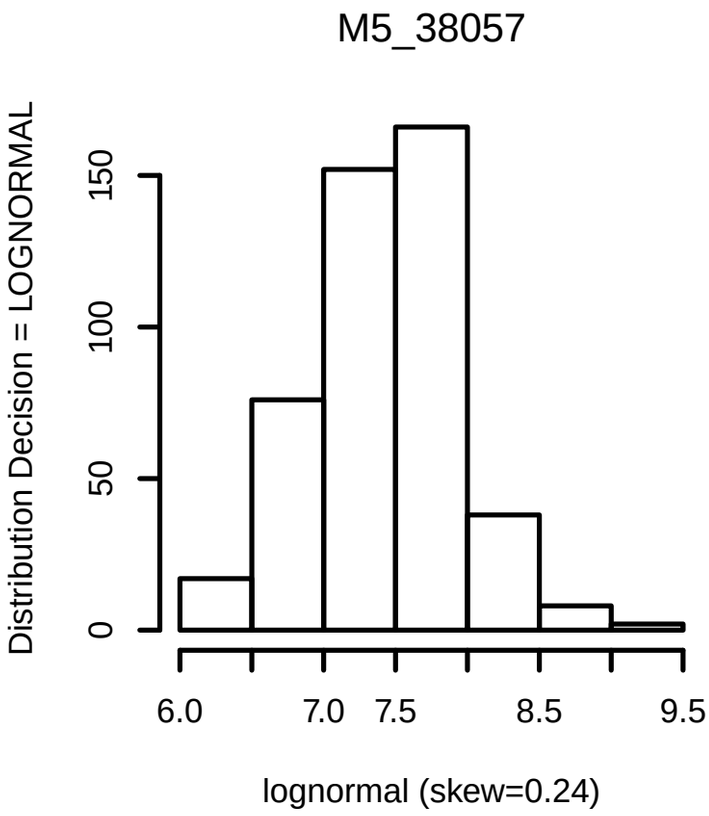

M5_55829
Distribution Decision = NORMAL
0
20
40
60
80
100
0
2000
4000
6000
normal (skew=0.077)

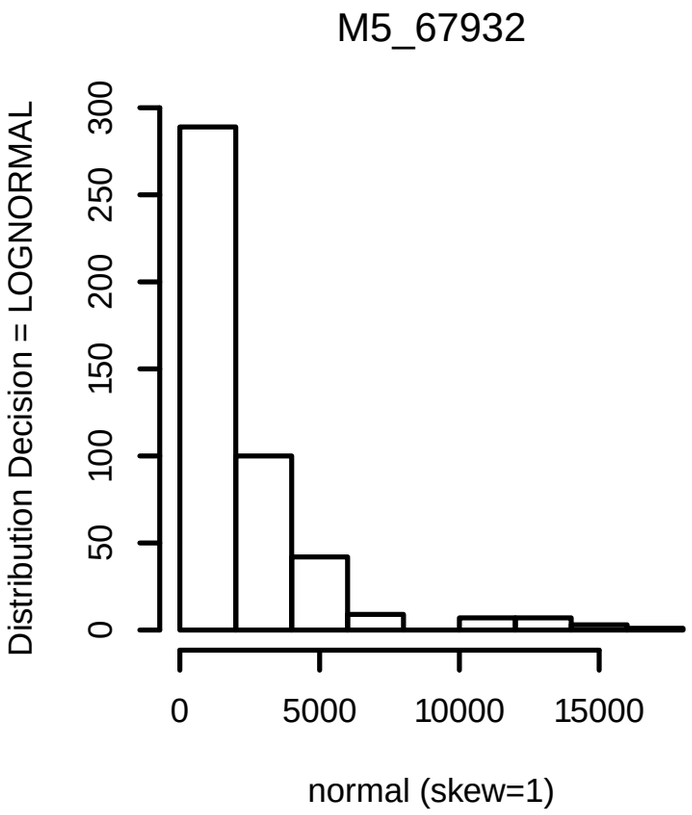

M5_55829
Distribution Decision = NORMAL
0
50
100
150
4
5
6
7
8
9
lognormal (skew=0.54)

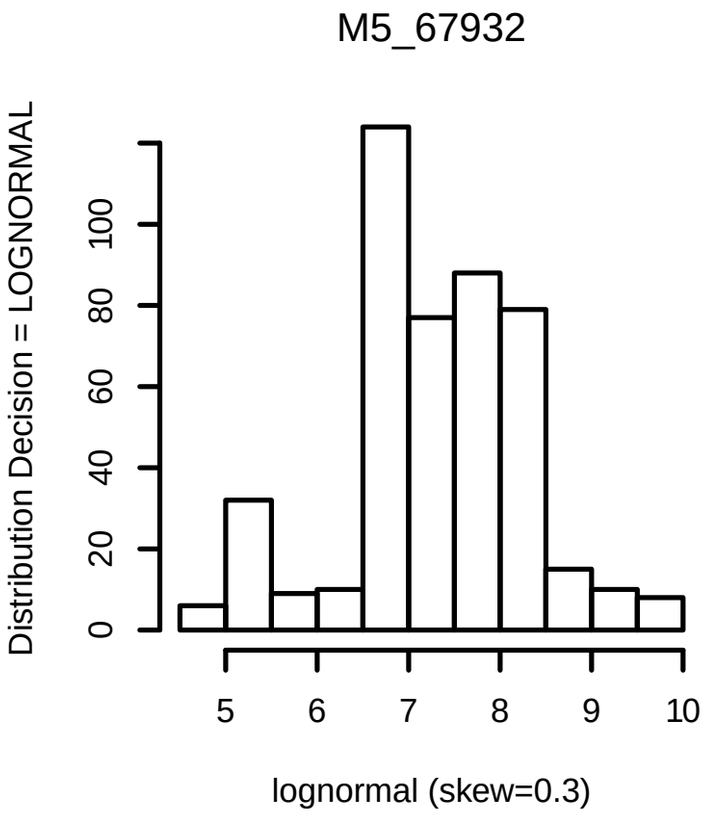

M5_40252
Distribution Decision = NORMAL
0
20
40
60
80
100
0
2000
4000
6000
8000
normal (skew=0.052)

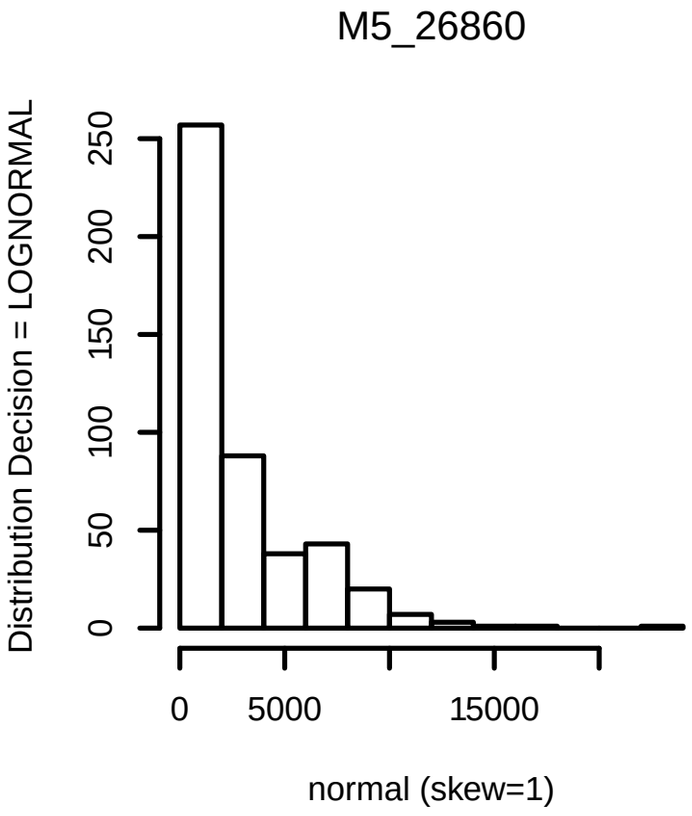

M5_40252
Distribution Decision = NORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=0.25)

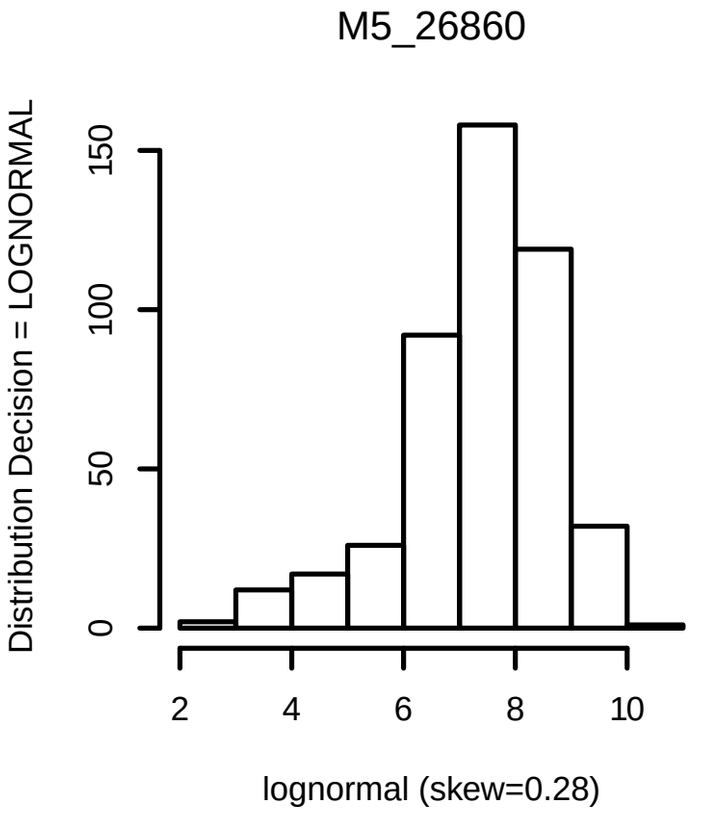

M5_38057
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2000
6000
10000
normal (skew=0.44)

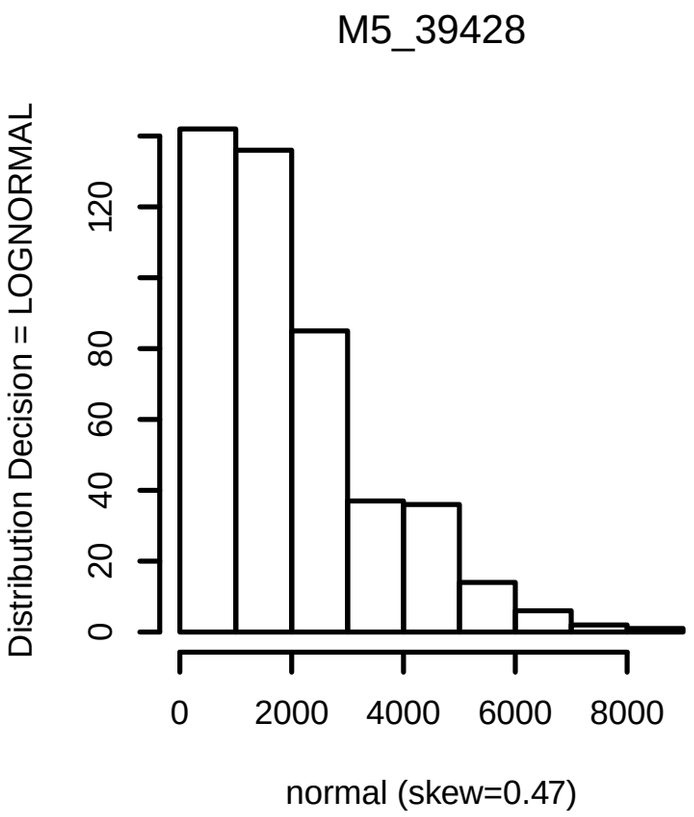

M5_38057
Distribution Decision = LOGNORMAL
0
50
100
150
6.0
7.0
7.5
8.5
9.5
lognormal (skew=0.24)

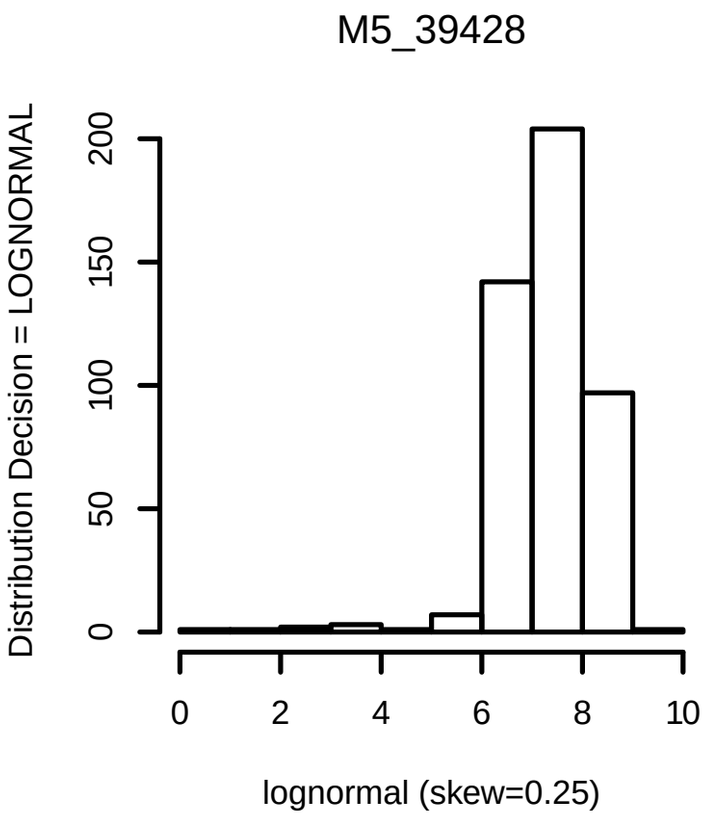

M5_67932
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
5000
10000
15000
normal (skew=1)

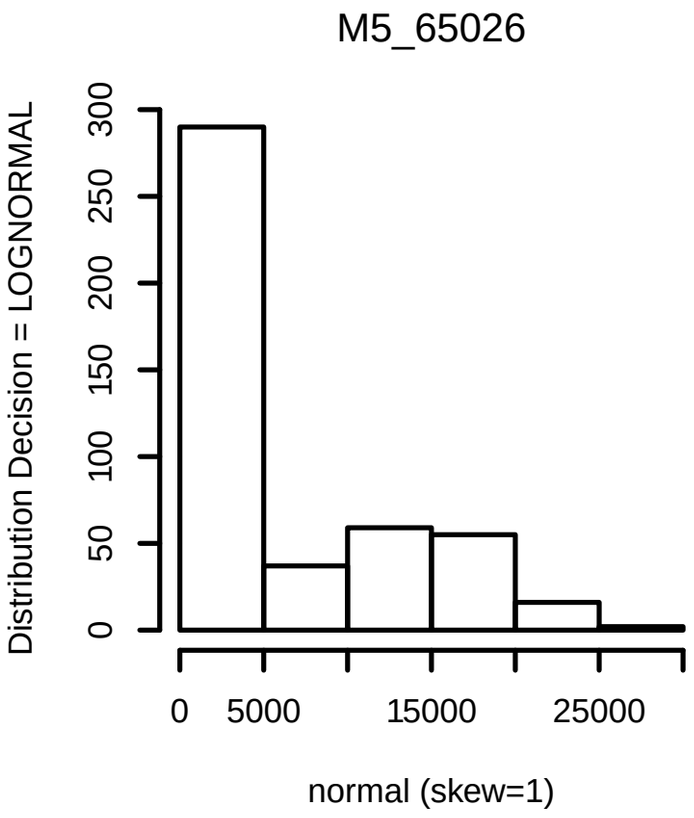

M5_67932
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
5
6
7
8
9
10
lognormal (skew=0.3)

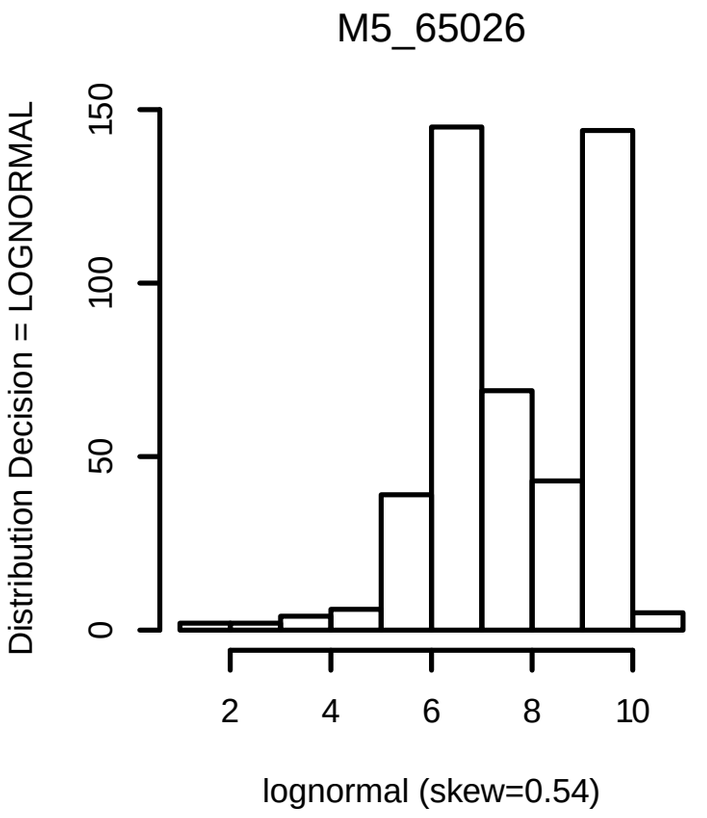

M5_26860
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
15000
normal (skew=1)

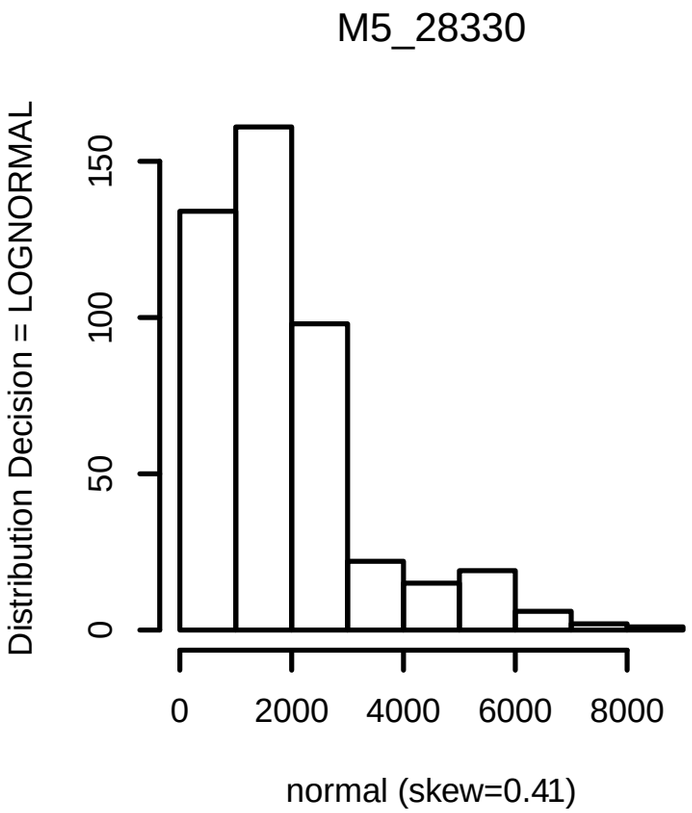

M5_26860
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=0.28)

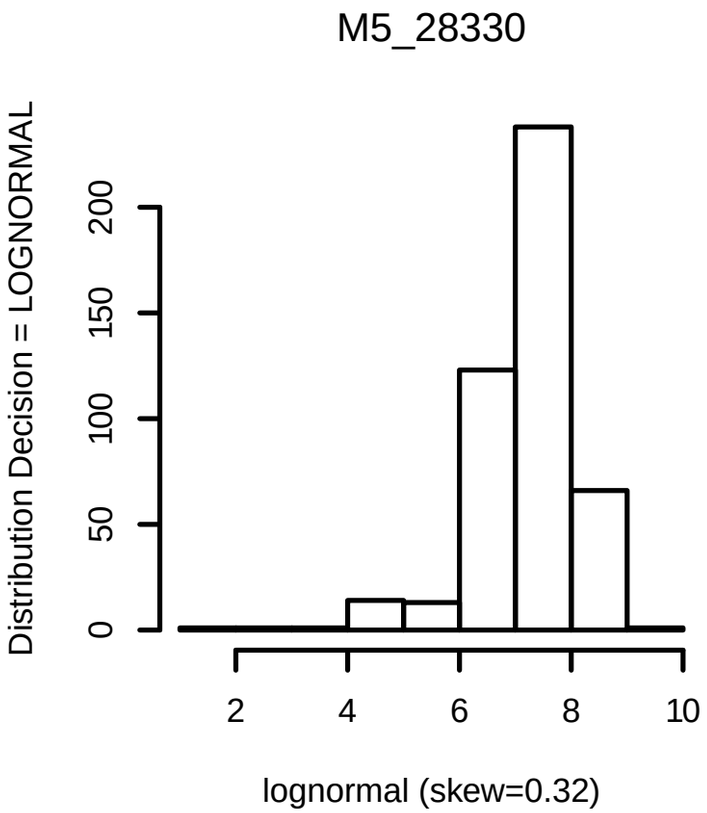

M5_39428
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
2000
4000
6000
8000
normal (skew=0.47)

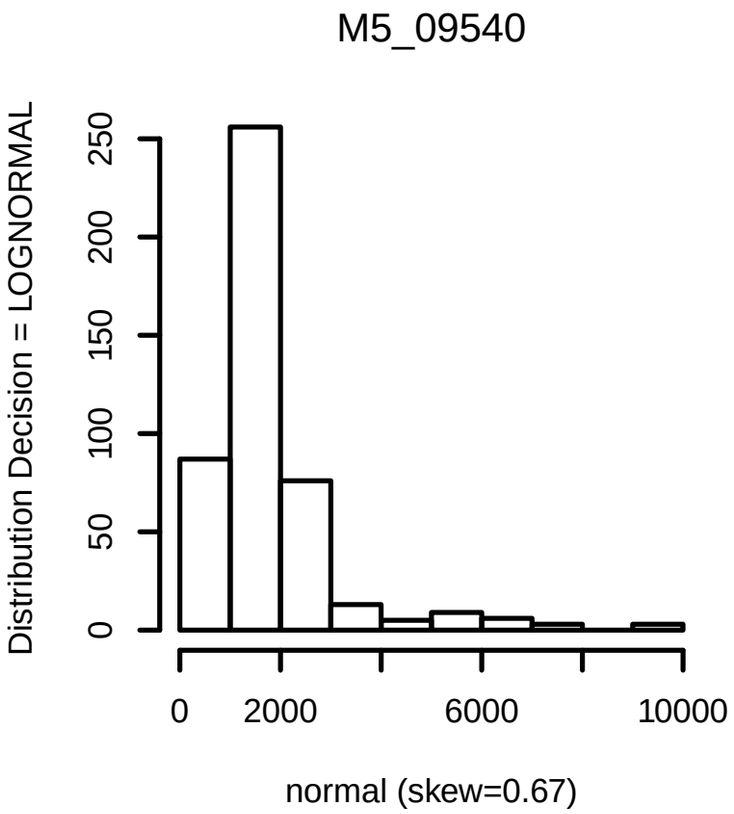

M5_39428
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
10
lognormal (skew=0.25)

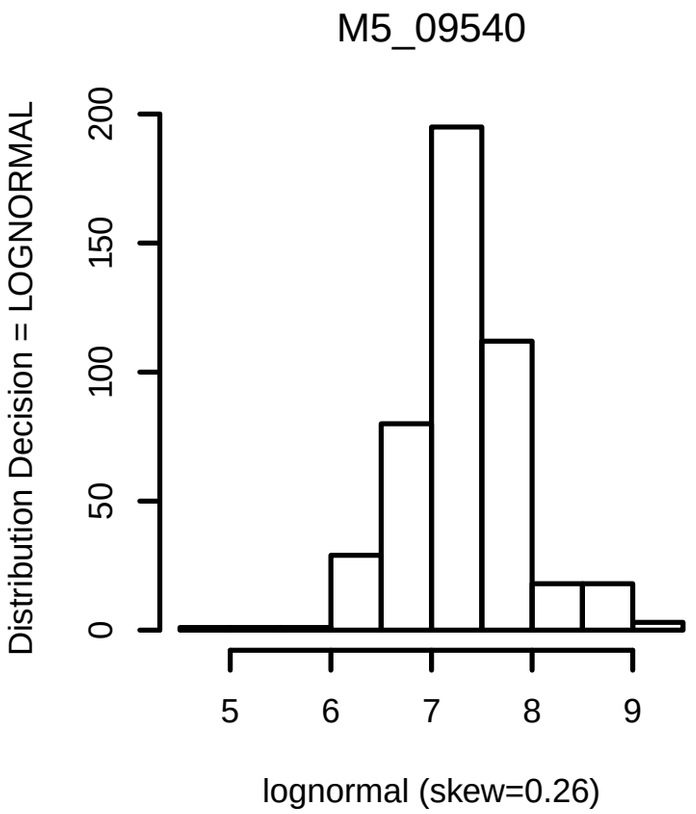

M5_65026
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
5000
15000
25000
normal (skew=1)

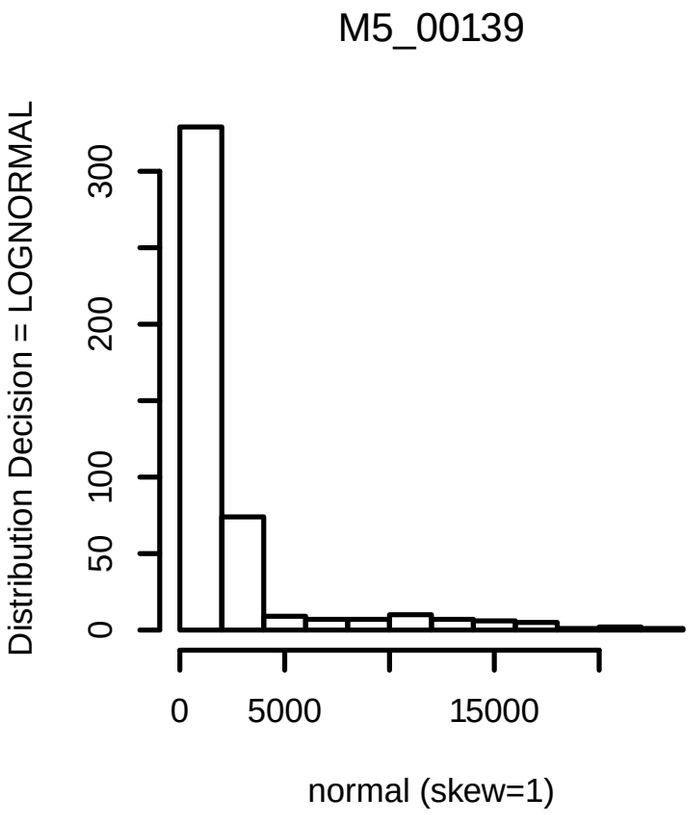

M5_65026
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=0.54)

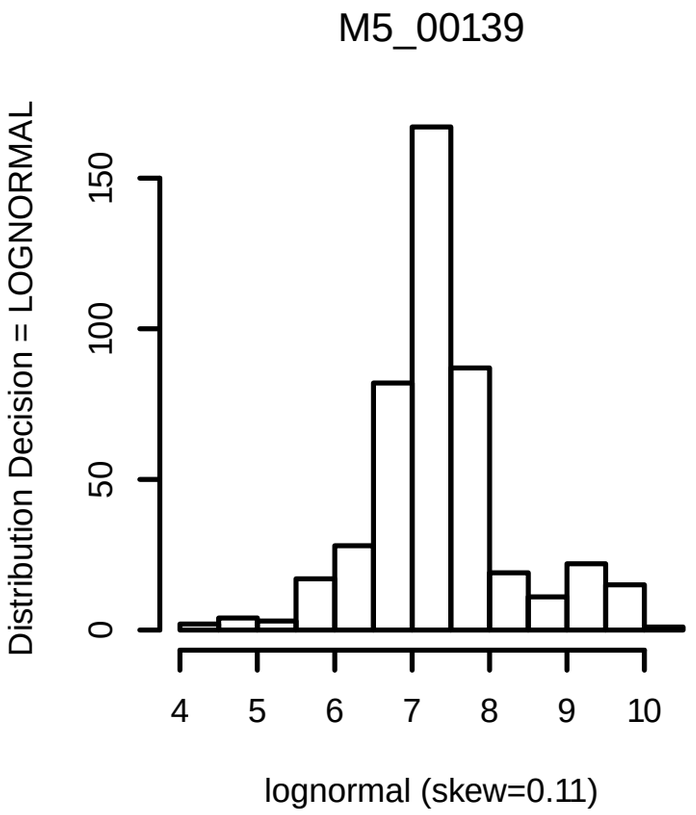

M5_28330
Distribution Decision = LOGNORMAL
0
50
100
150
0
2000
4000
6000
8000
normal (skew=0.41)

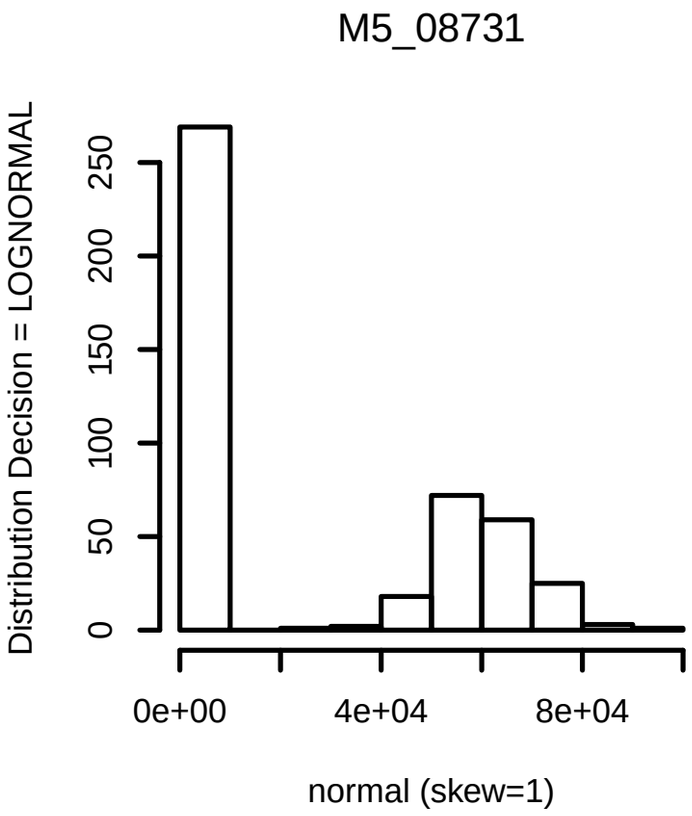

M5_28330
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
10
lognormal (skew=0.32)

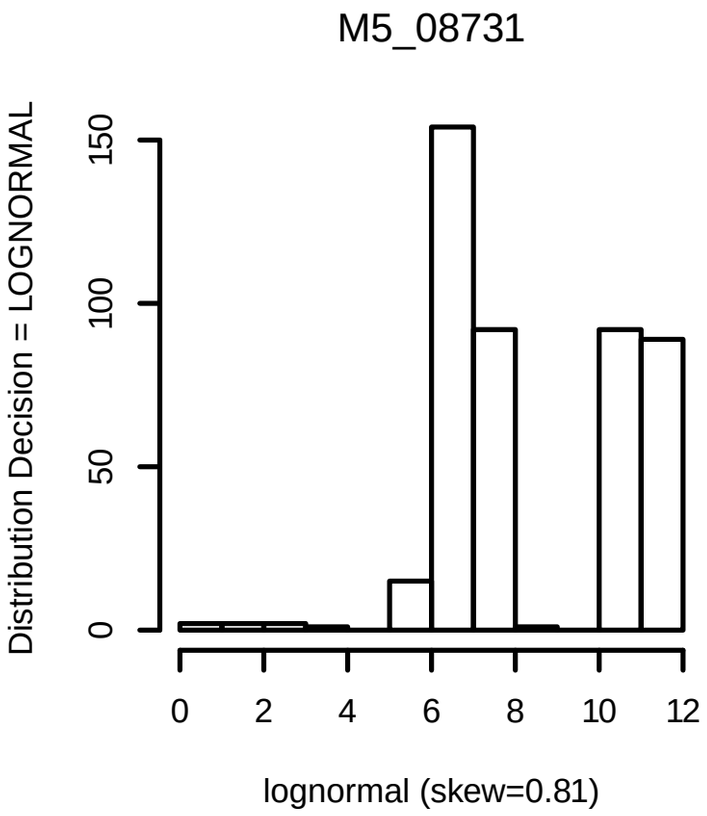

M5_09540
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2000
6000
10000
normal (skew=0.67)

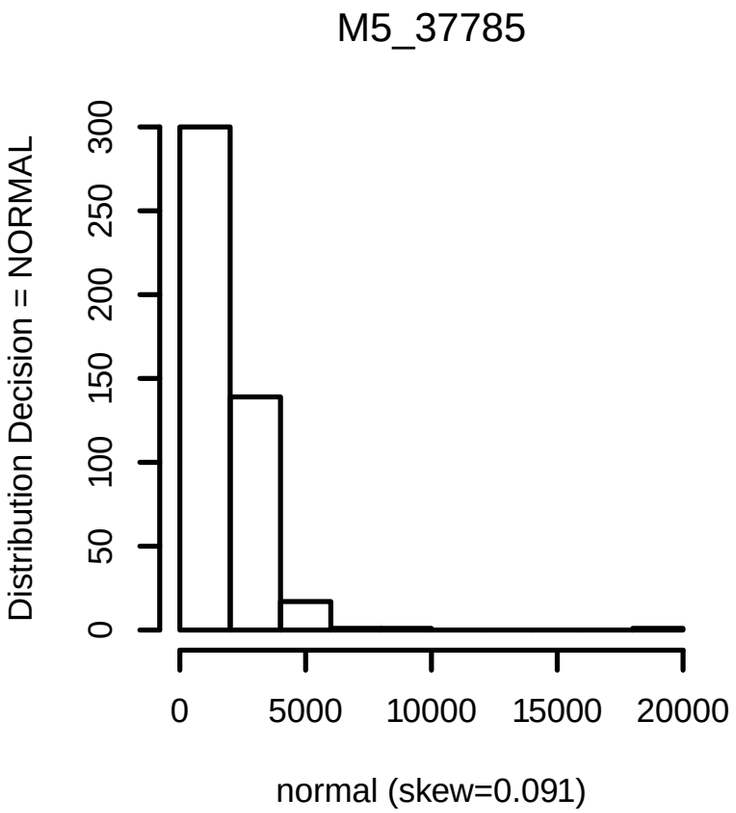

M5_09540
Distribution Decision = LOGNORMAL
0
50
100
150
200
5
6
7
8
9
lognormal (skew=0.26)

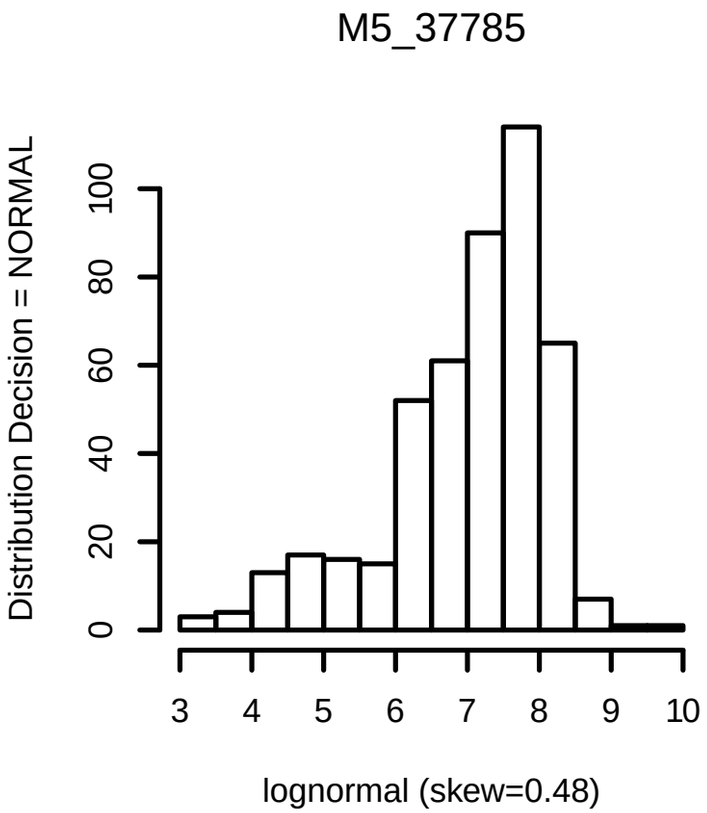

M5_00139
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
5000
15000
normal (skew=1)

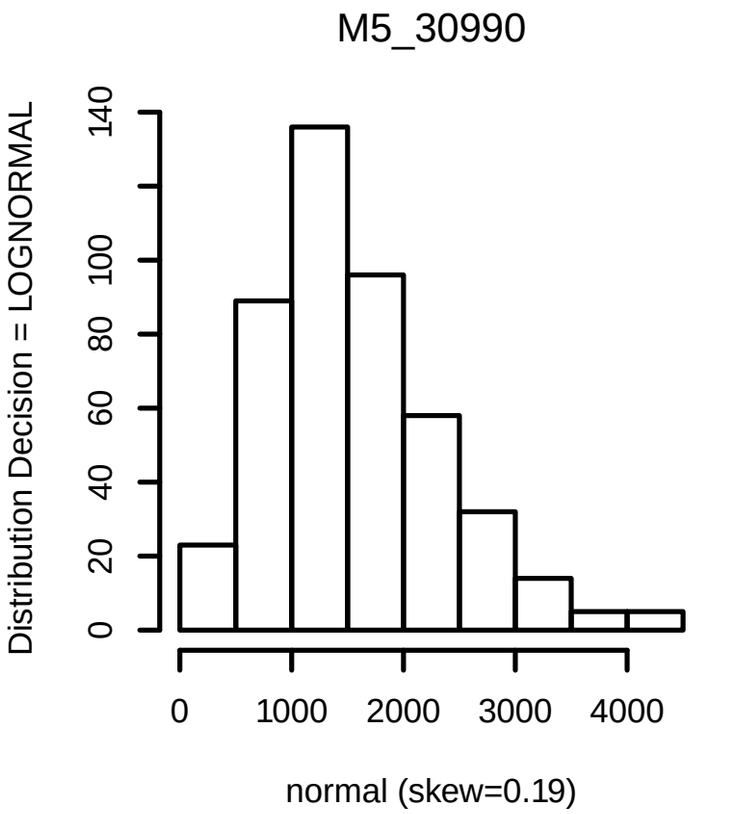

M5_00139
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
9
10
lognormal (skew=0.11)

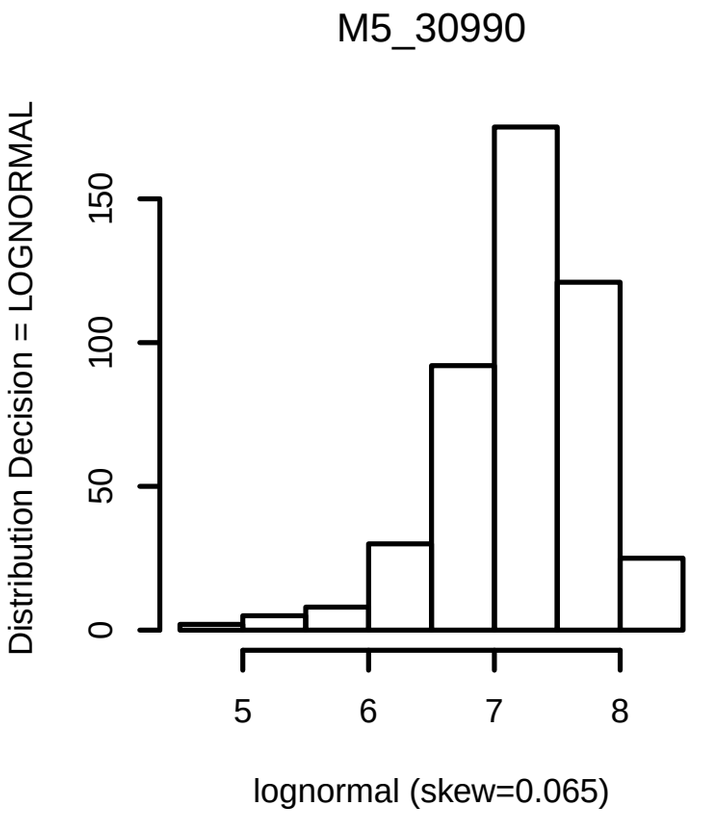

M5_08731
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0e+00
4e+04
8e+04
normal (skew=1)

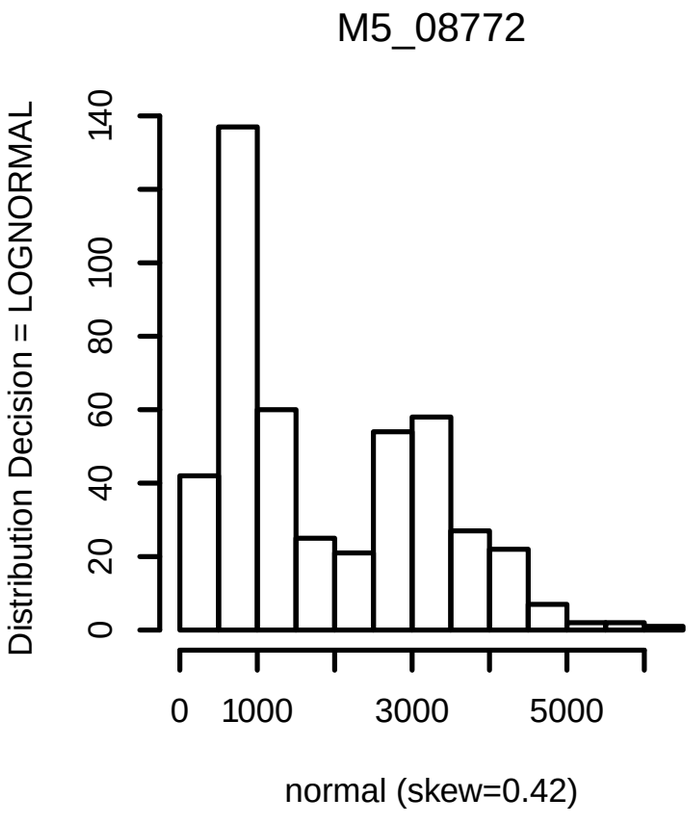

M5_08731
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
12
lognormal (skew=0.81)

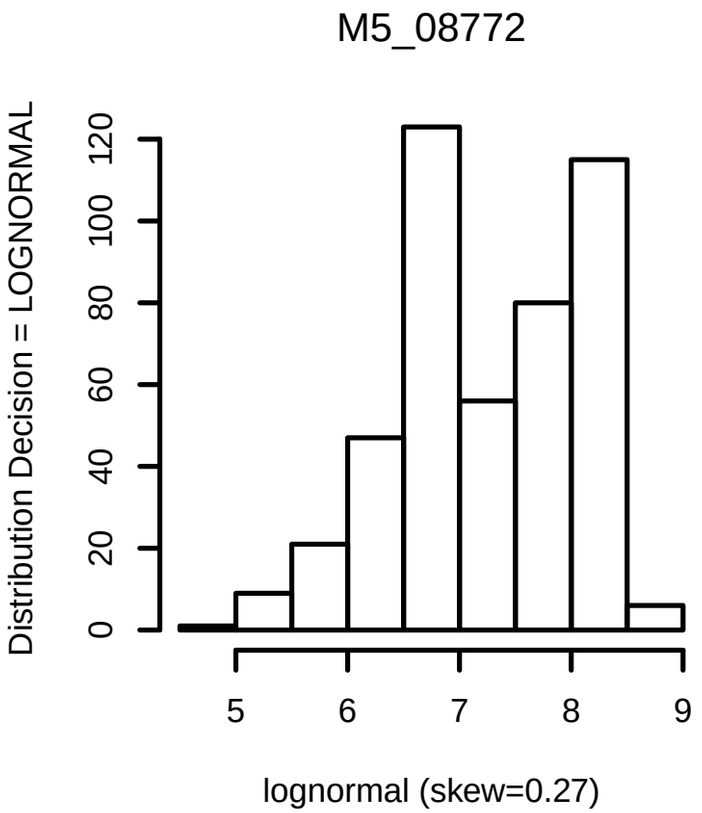

M5_37785
Distribution Decision = NORMAL
0
50
100
150
200
250
300
0
5000
10000
15000
20000
normal (skew=0.091)

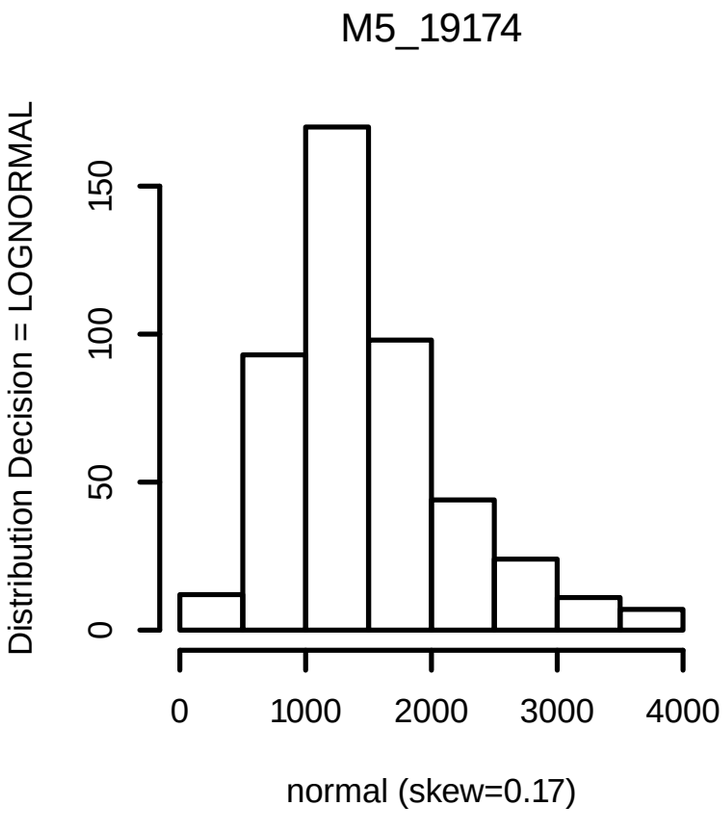

M5_37785
Distribution Decision = NORMAL
0
20
40
60
80
100
3
4
5
6
7
8
9
10
lognormal (skew=0.48)

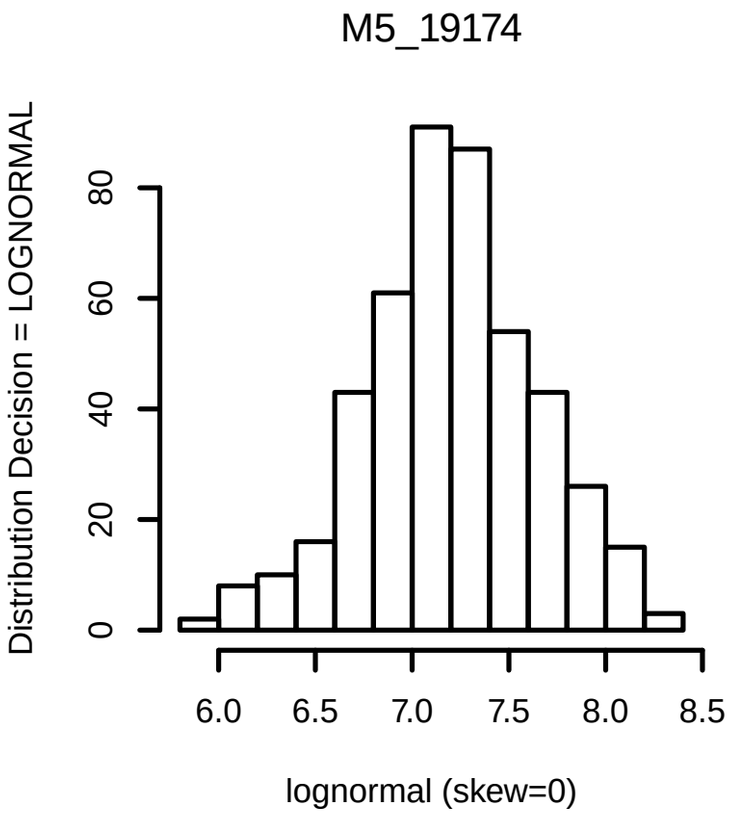

M5_30990
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
0
1000
2000
3000
4000
normal (skew=0.19)

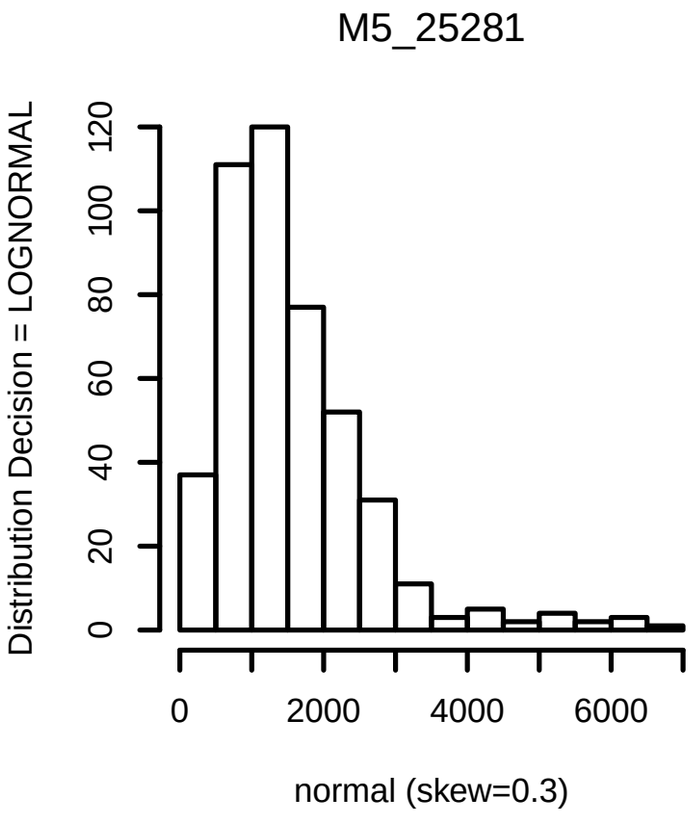

M5_30990
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
lognormal (skew=0.065)

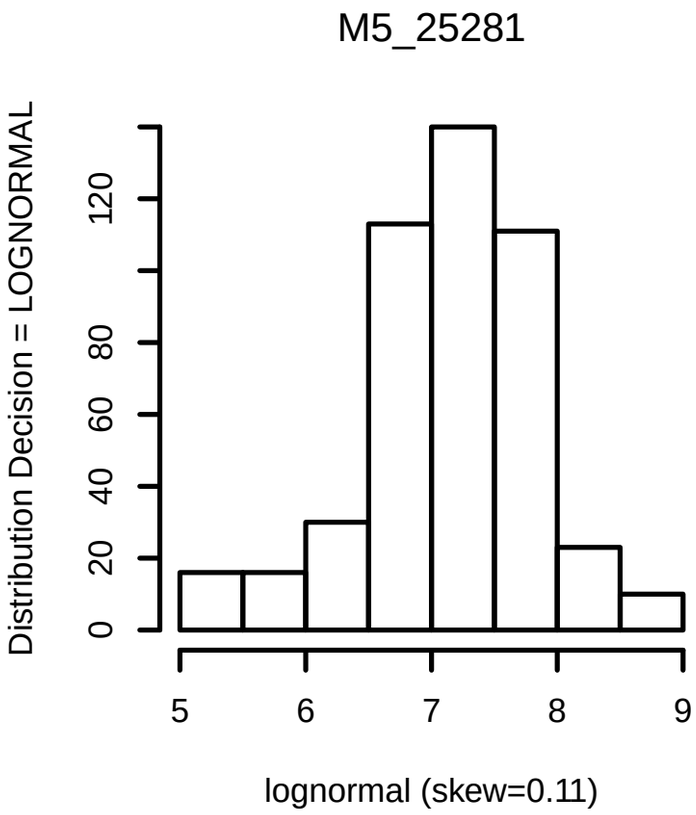

M5_08772
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
0
1000
3000
5000
normal (skew=0.42)

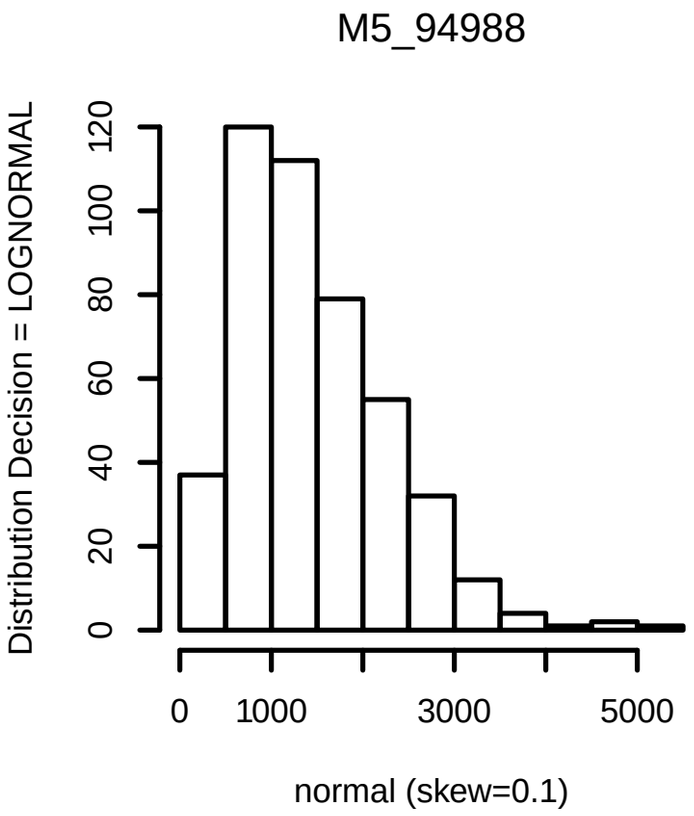

M5_08772
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
5
6
7
8
9
lognormal (skew=0.27)

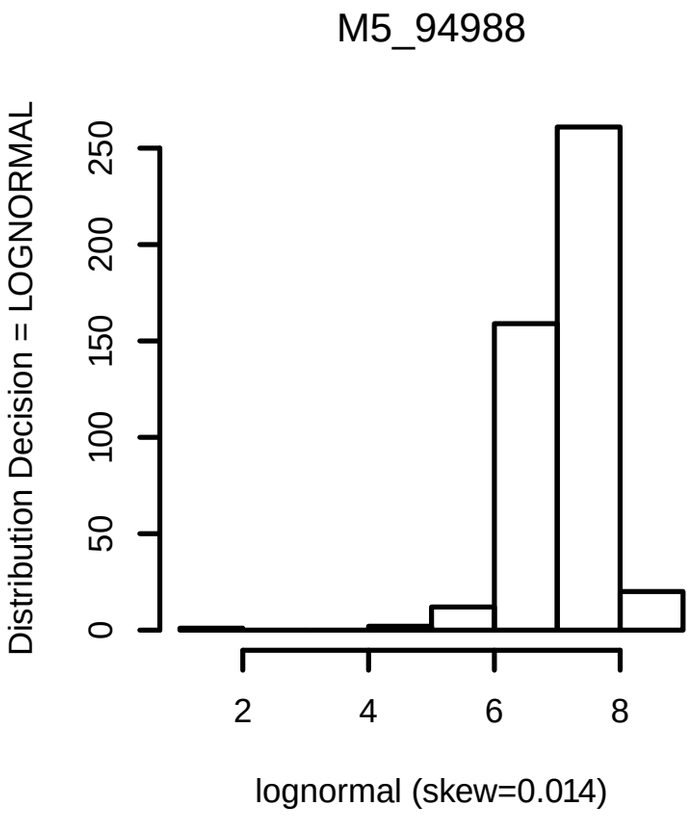

M5_19174
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.17)

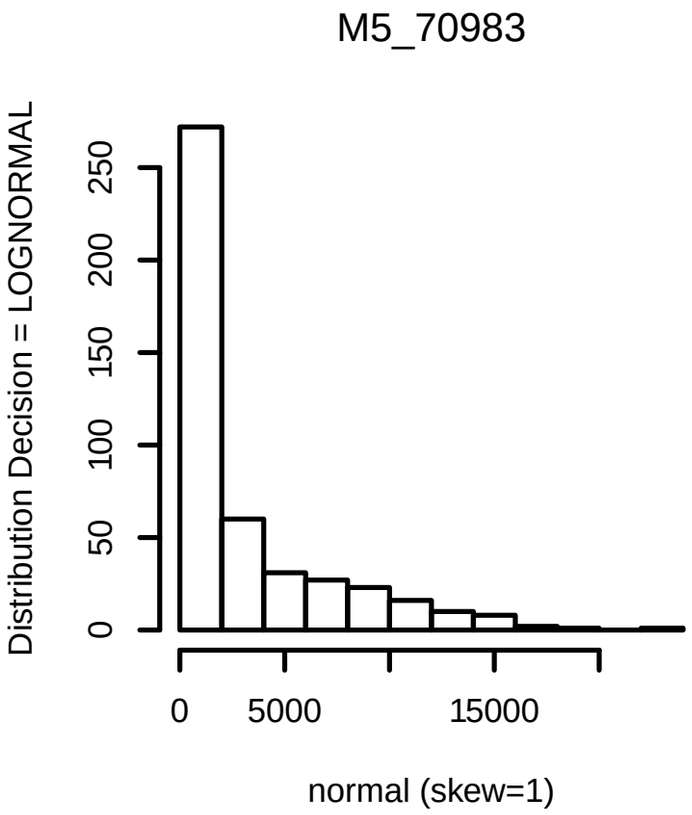

M5_19174
Distribution Decision = LOGNORMAL
0
20
40
60
80
6.0
6.5
7.0
7.5
8.0
8.5
lognormal (skew=0)

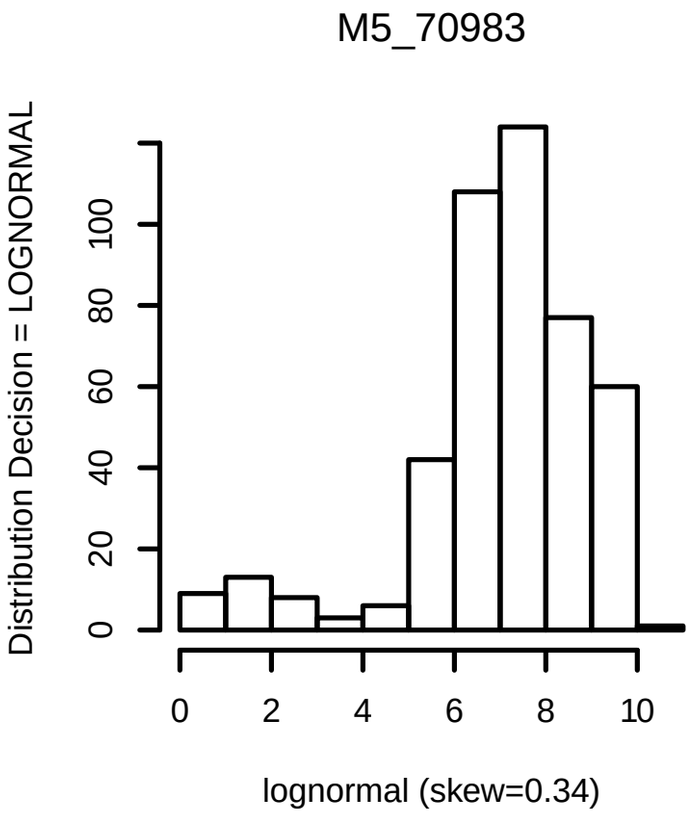

M5_25281
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
2000
4000
6000
normal (skew=0.3)

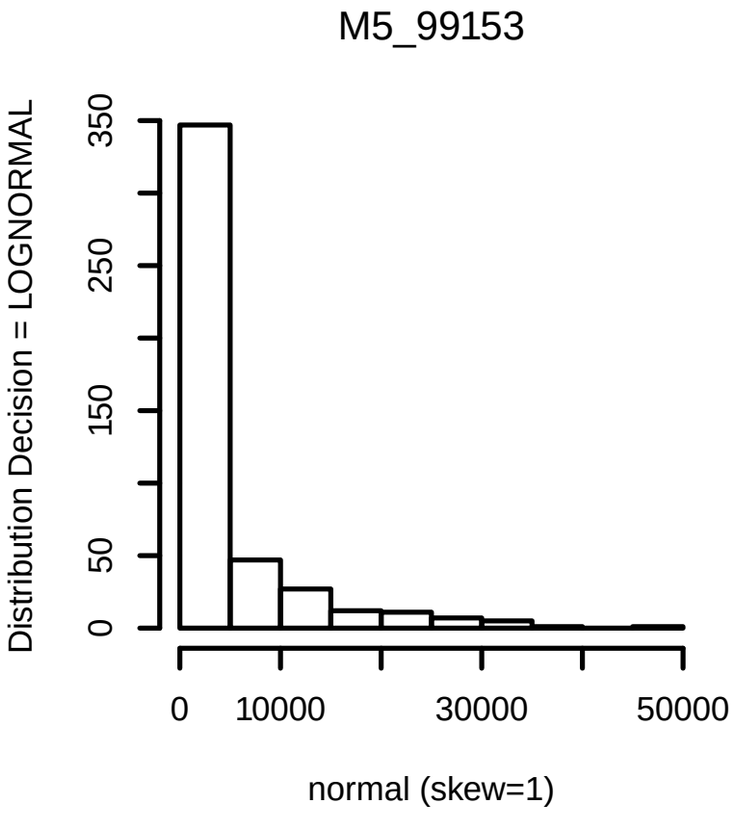

M5_25281
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
5
6
7
8
9
lognormal (skew=0.11)

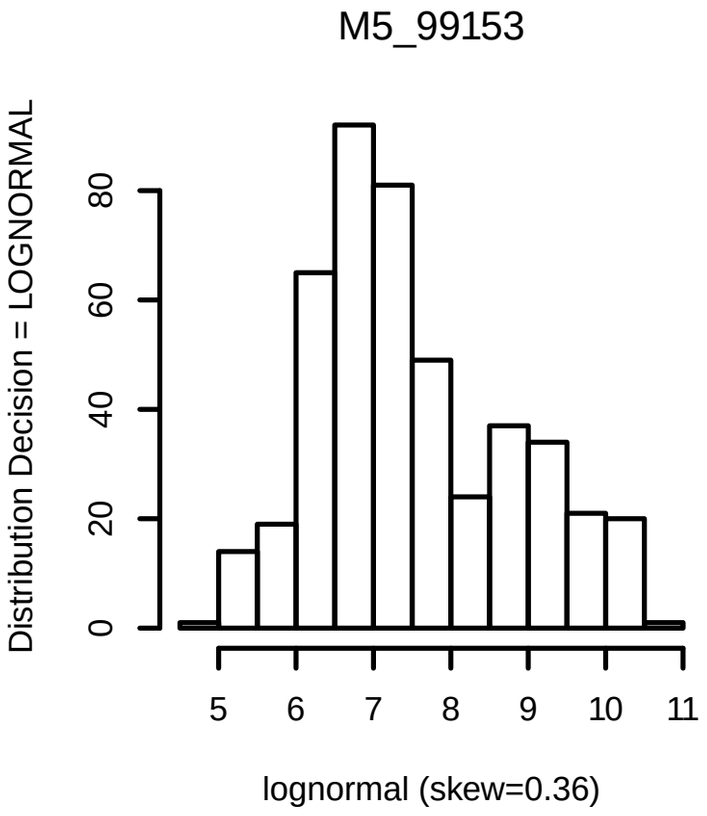

M5_94988
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
1000
3000
5000
normal (skew=0.1)

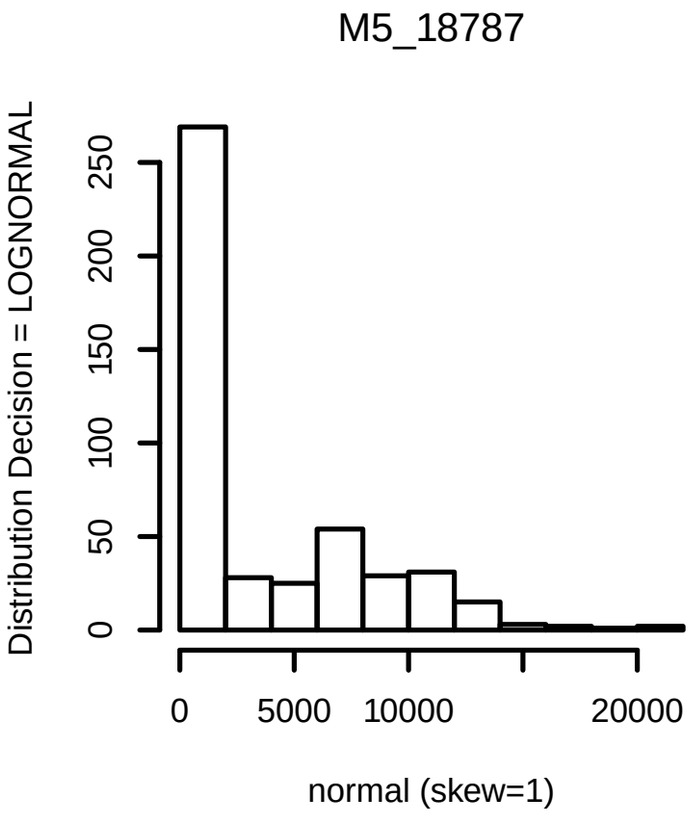

M5_94988
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
2
4
6
8
lognormal (skew=0.014)

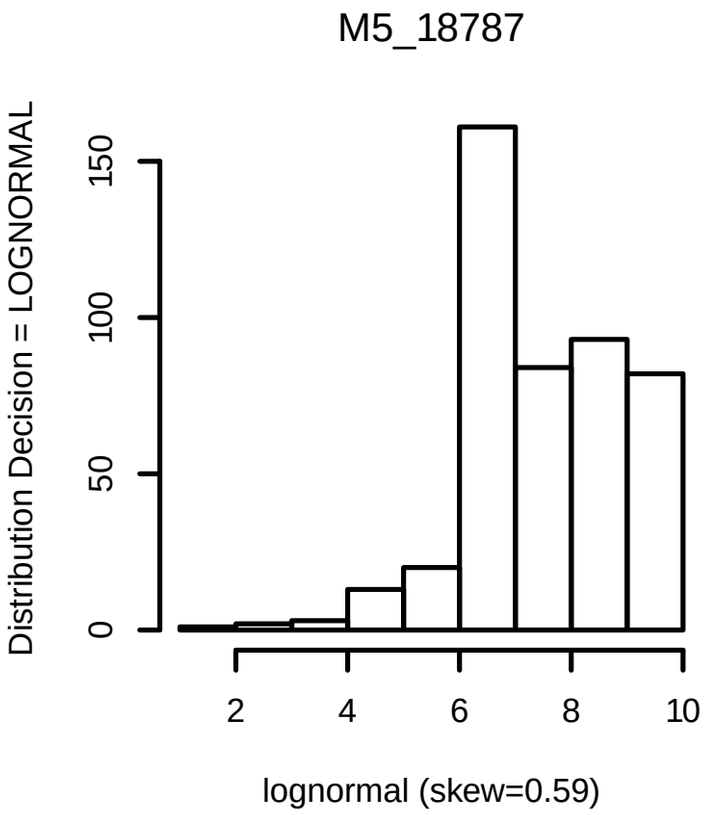

M5_70983
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
15000
normal (skew=1)

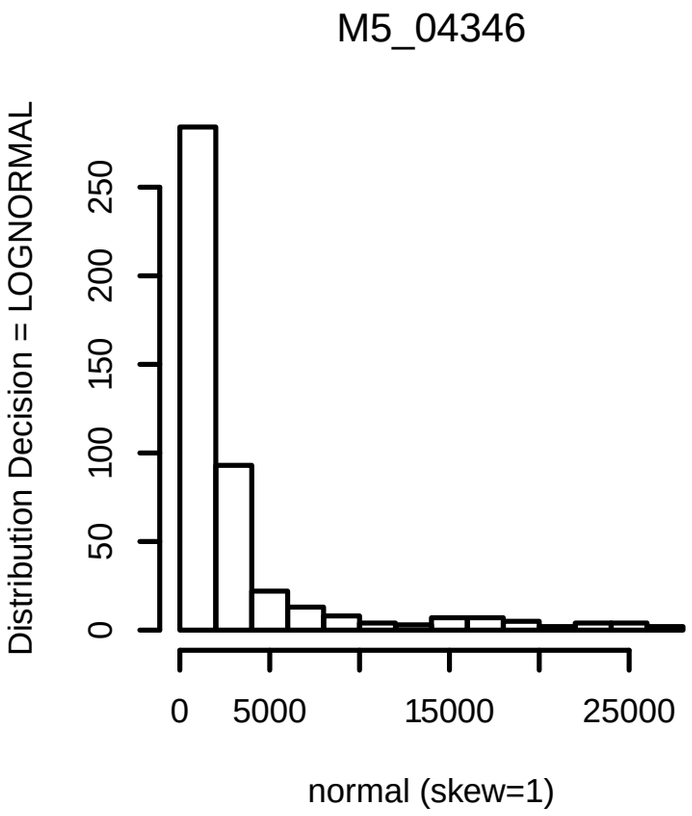

M5_70983
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2
4
6
8
10
lognormal (skew=0.34)

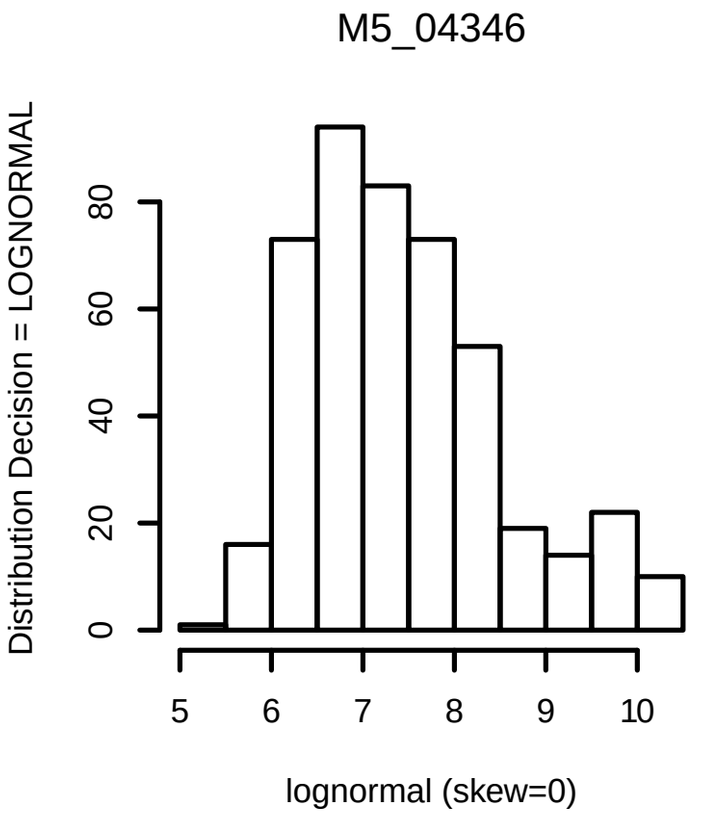

M5_99153
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
10000
30000
50000
normal (skew=1)

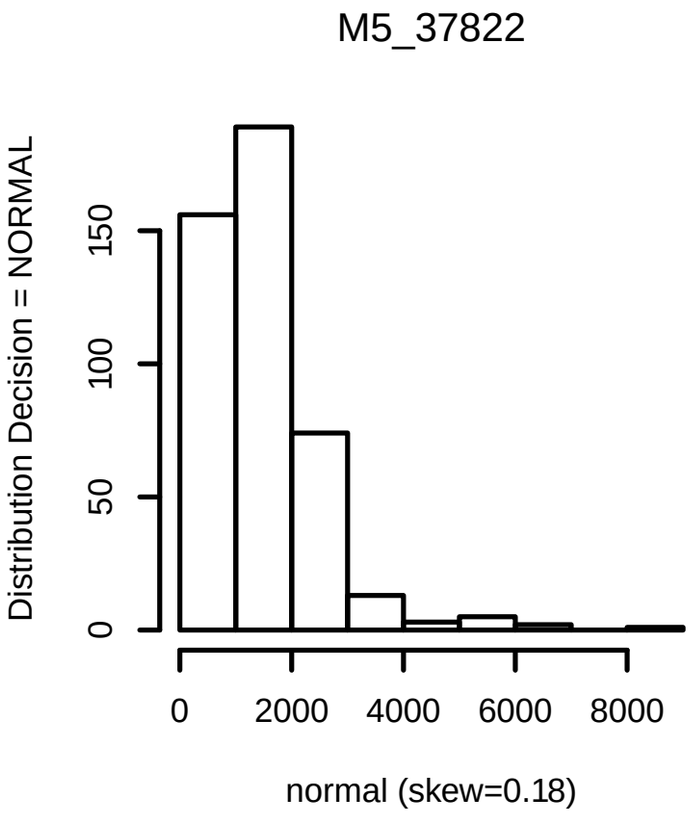

M5_99153
Distribution Decision = LOGNORMAL
0
20
40
60
80
5
6
7
8
9
10
11
lognormal (skew=0.36)

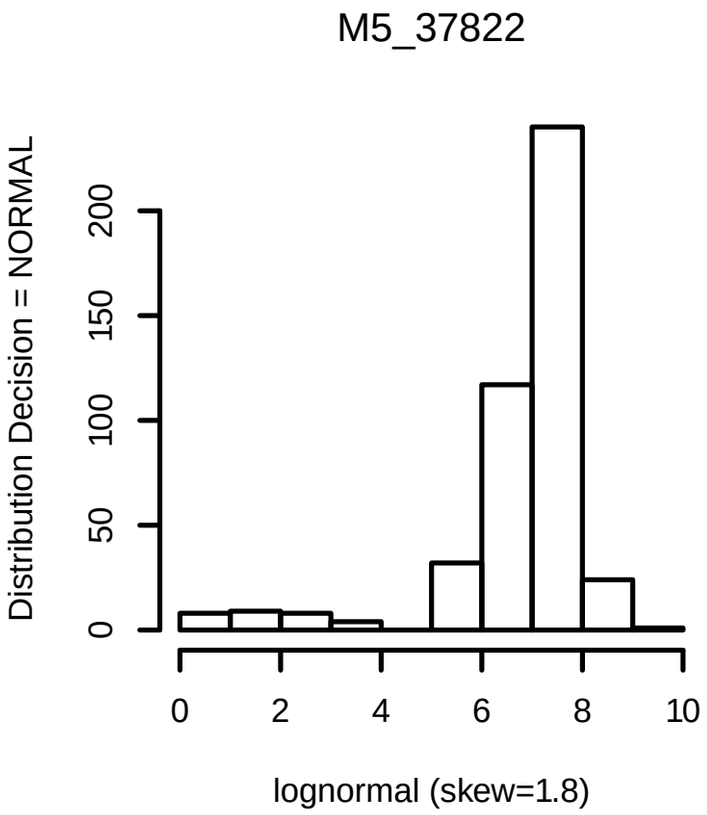

M5_18787
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
10000
20000
normal (skew=1)

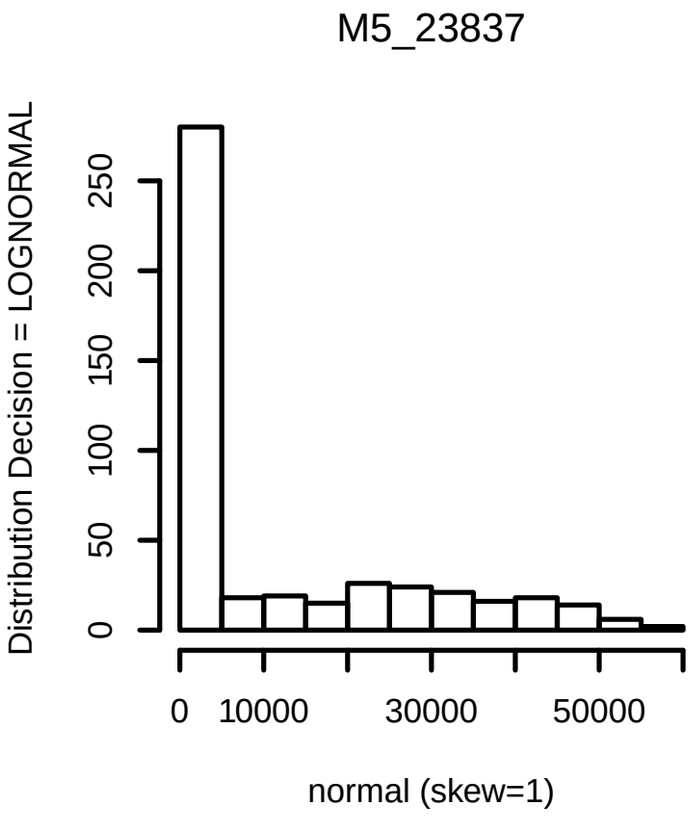

M5_18787
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=0.59)

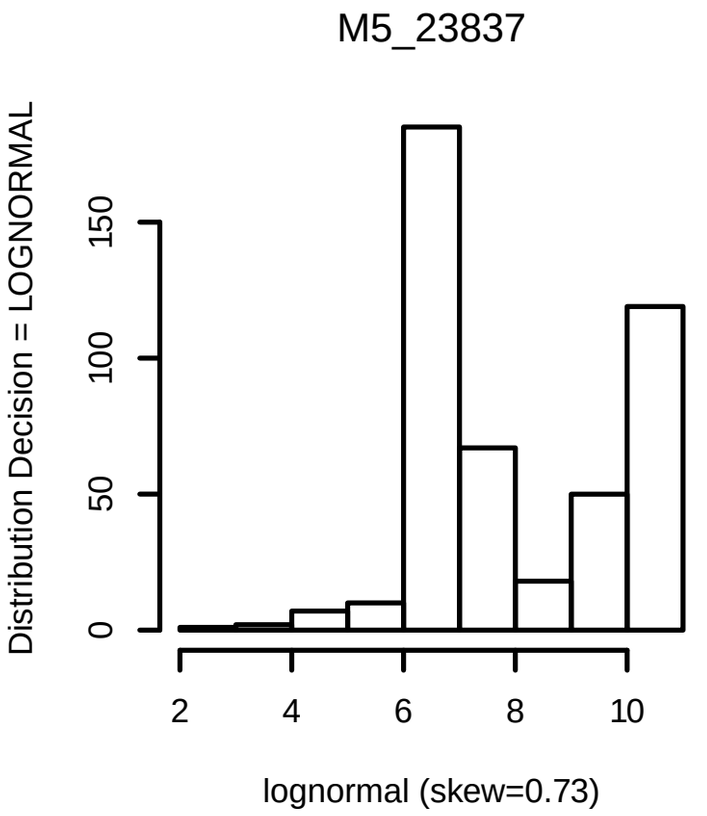

M5_04346
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
15000
25000
normal (skew=1)

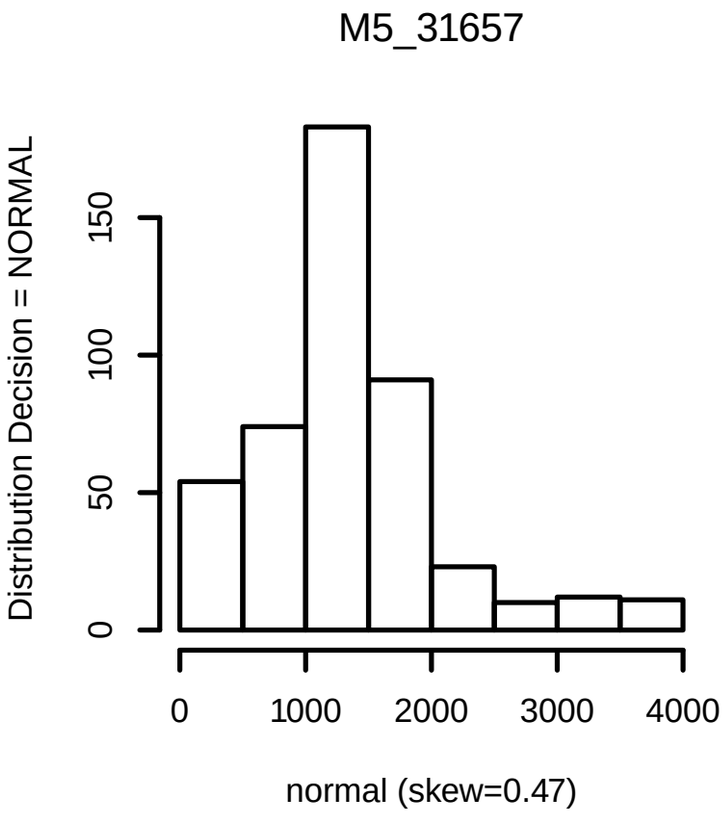

M5_04346
Distribution Decision = LOGNORMAL
0
20
40
60
80
5
6
7
8
9
10
lognormal (skew=0)

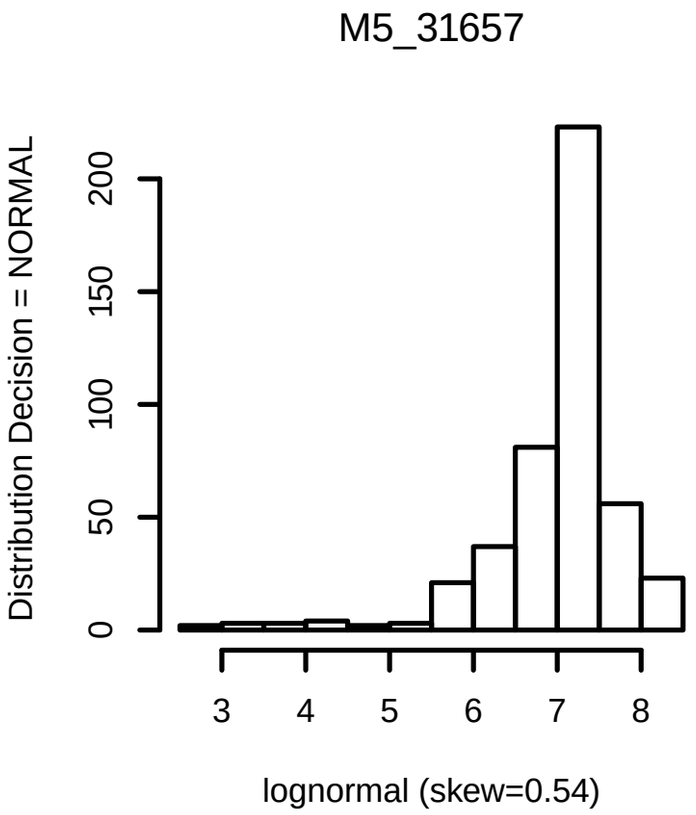

M5_37822
Distribution Decision = NORMAL
0
50
100
150
0
2000
4000
6000
8000
normal (skew=0.18)

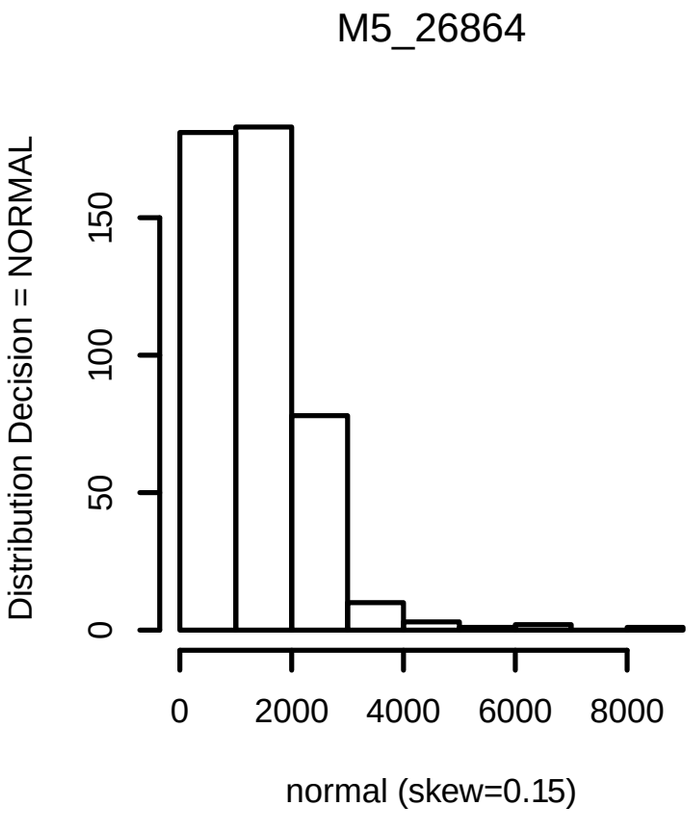

M5_37822
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
10
lognormal (skew=1.8)

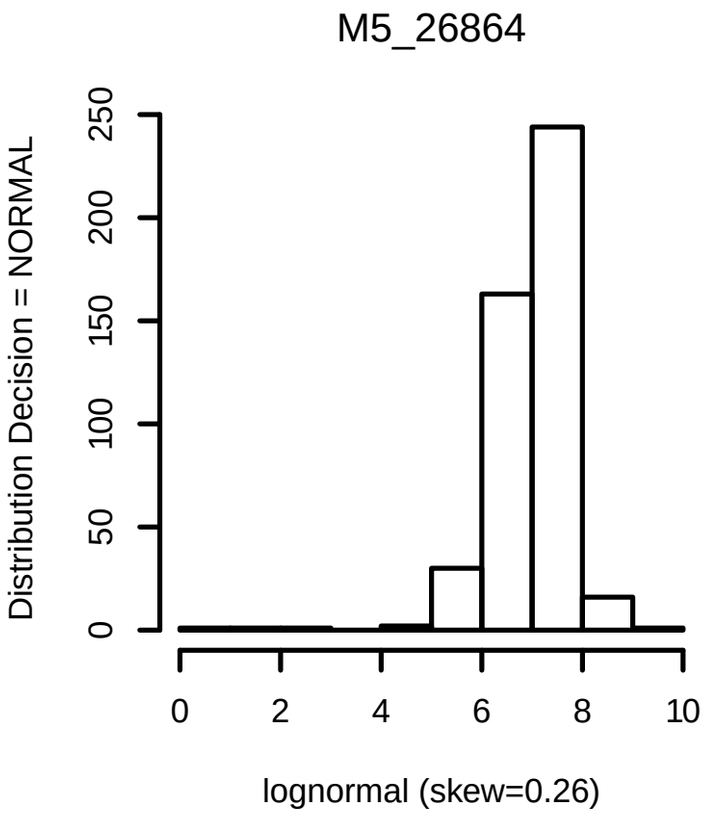

M5_23837
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
10000
30000
50000
normal (skew=1)

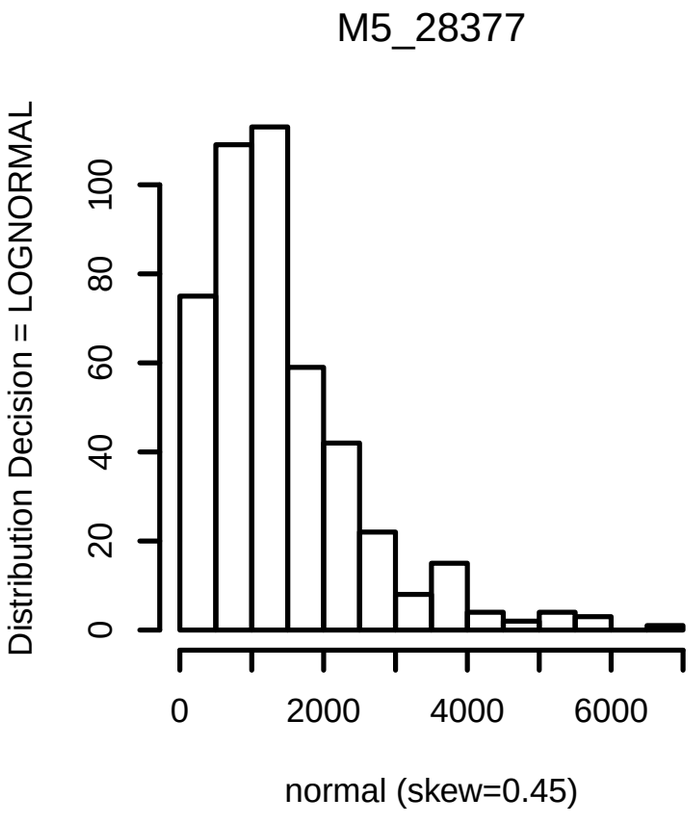

M5_23837
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=0.73)

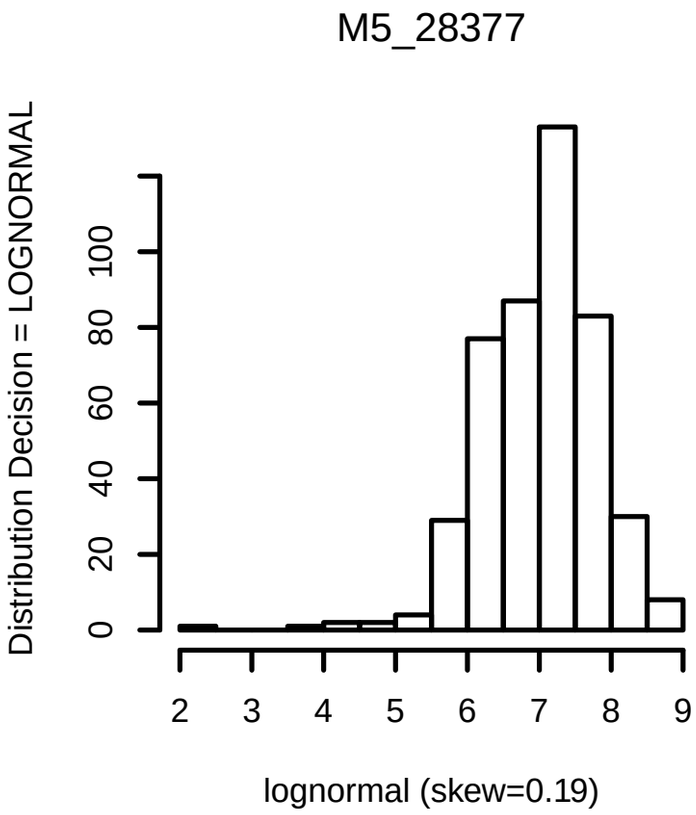

M5_31657
Distribution Decision = NORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.47)

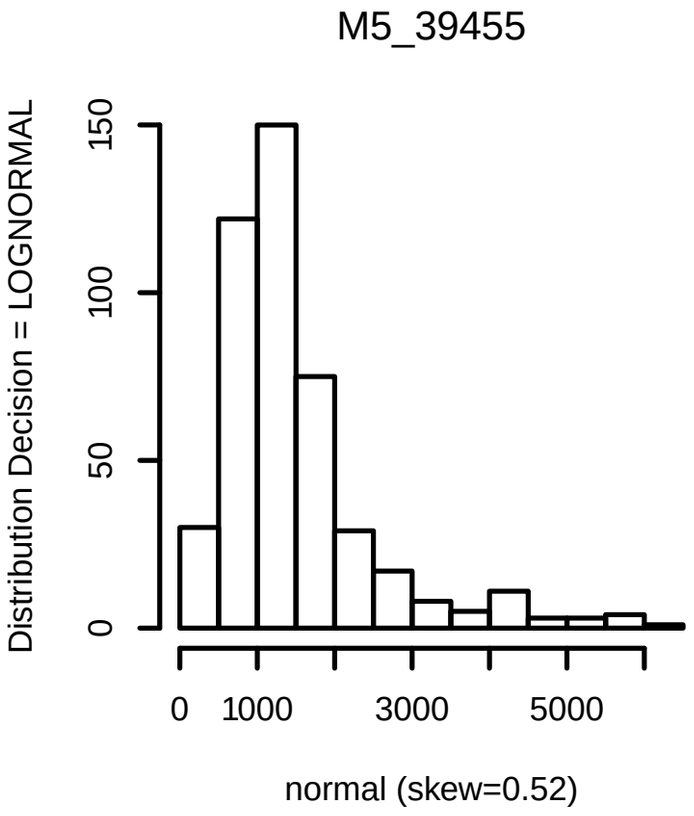

M5_31657
Distribution Decision = NORMAL
0
50
100
150
200
3
4
5
6
7
8
lognormal (skew=0.54)

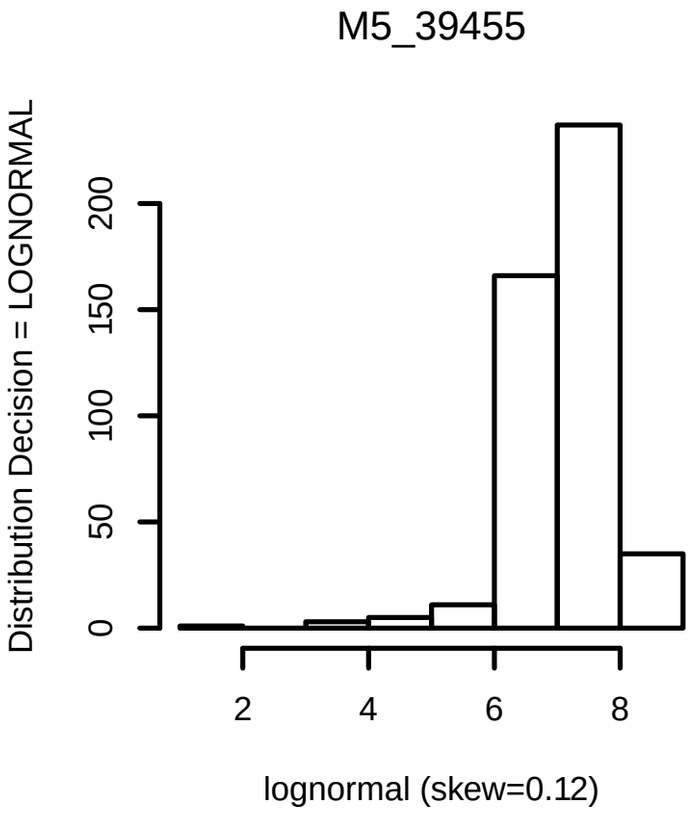

M5_26864
Distribution Decision = NORMAL
0
50
100
150
0
2000
4000
6000
8000
normal (skew=0.15)

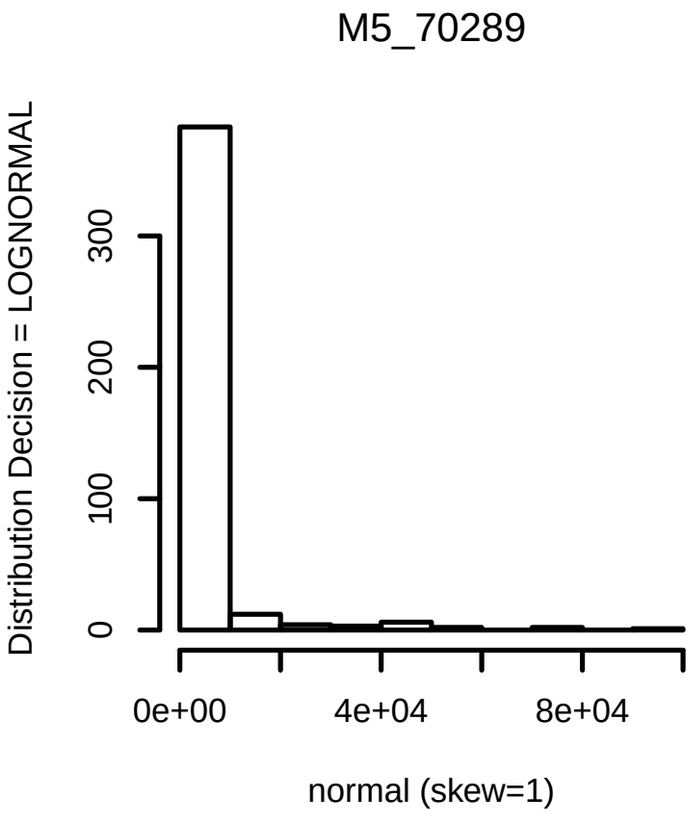

M5_26864
Distribution Decision = NORMAL
0
50
100
150
200
250
0
2
4
6
8
10
lognormal (skew=0.26)

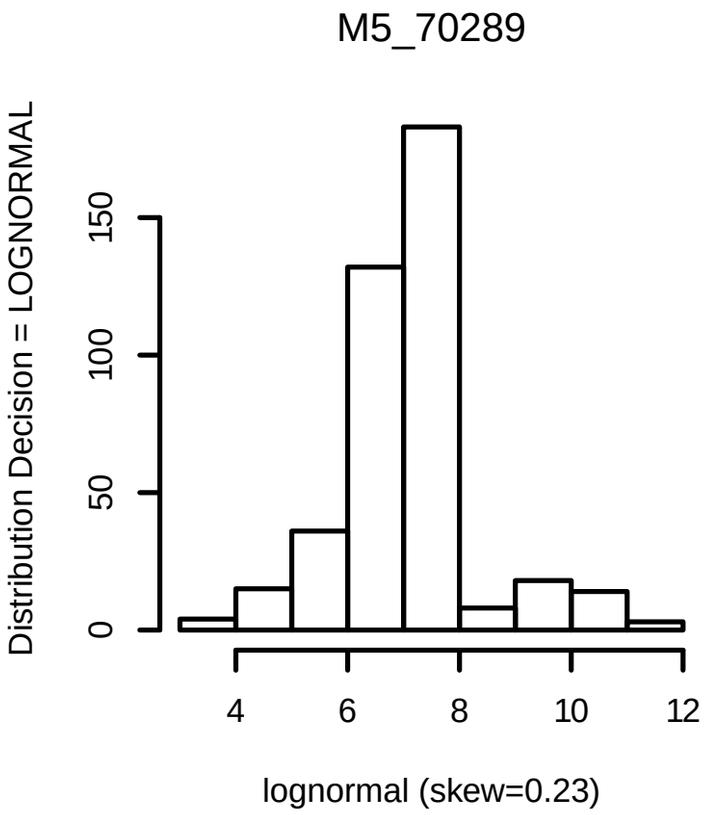

M5_28377
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2000
4000
6000
normal (skew=0.45)

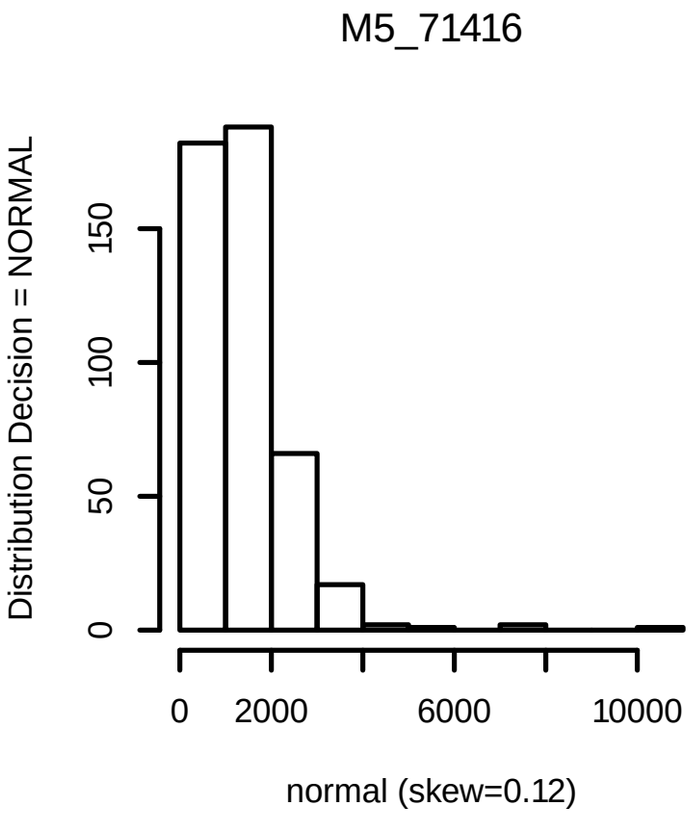

M5_28377
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
2
3
4
5
6
7
8
9
lognormal (skew=0.19)

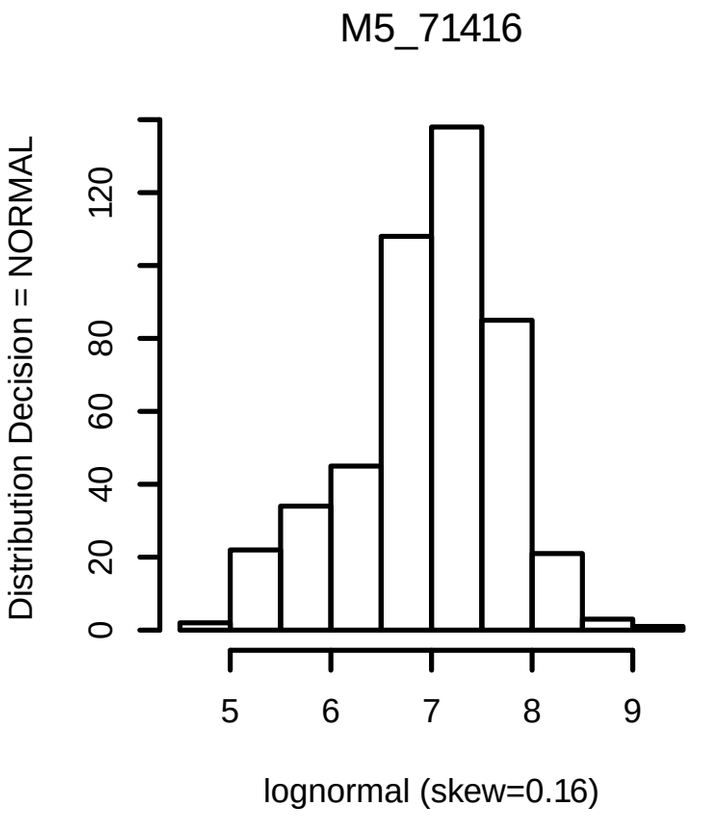

M5_39455
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
3000
5000
normal (skew=0.52)

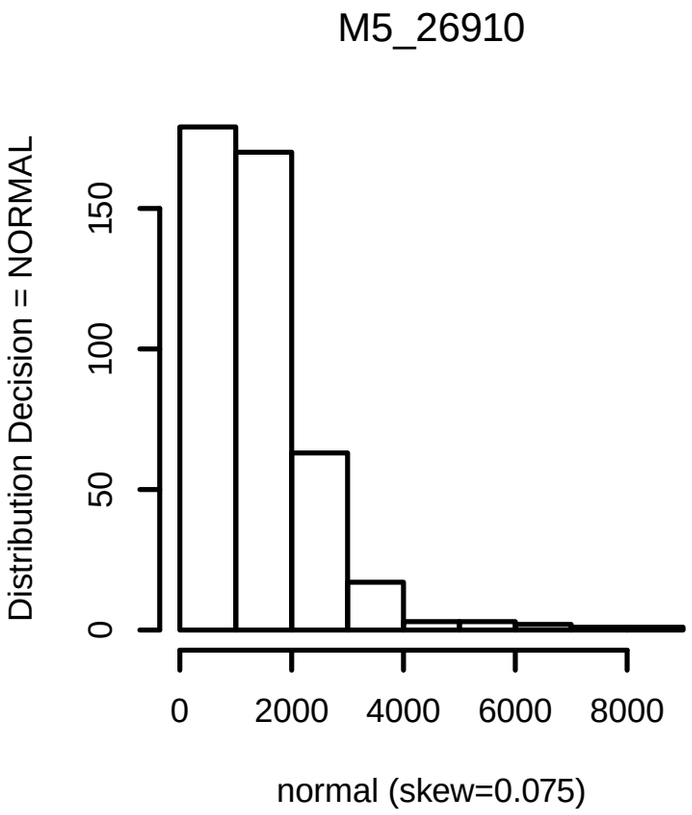

M5_39455
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
lognormal (skew=0.12)

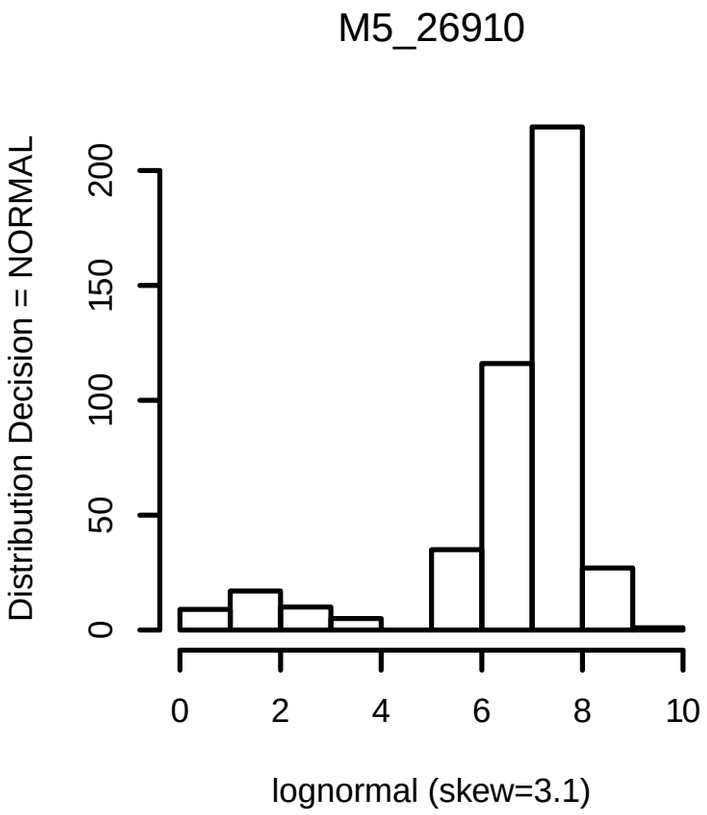

M5_70289
Distribution Decision = LOGNORMAL
0
100
200
300
0e+00
4e+04
8e+04
normal (skew=1)

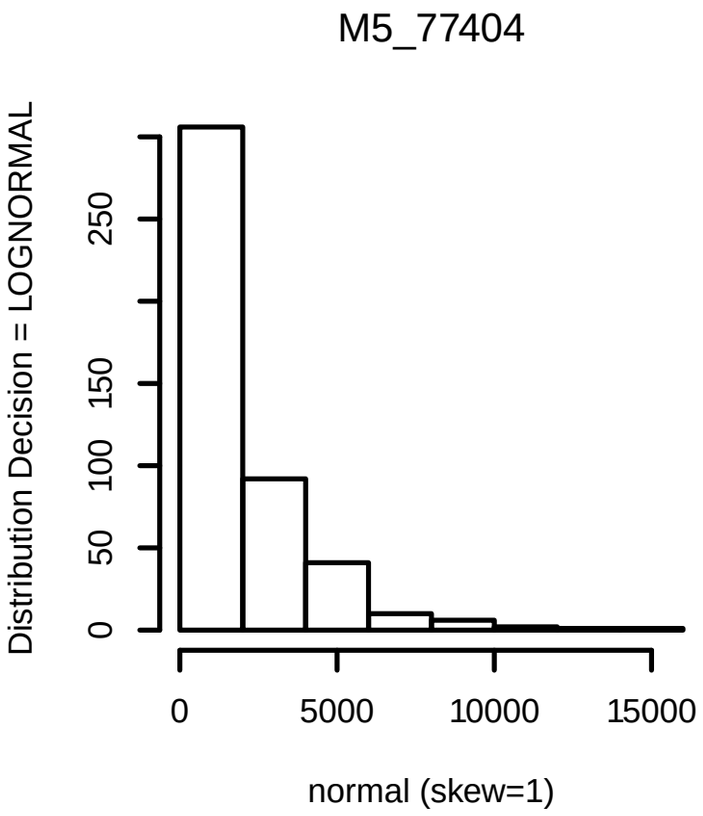

M5_70289
Distribution Decision = LOGNORMAL
0
50
100
150
4
6
8
10
12
lognormal (skew=0.23)

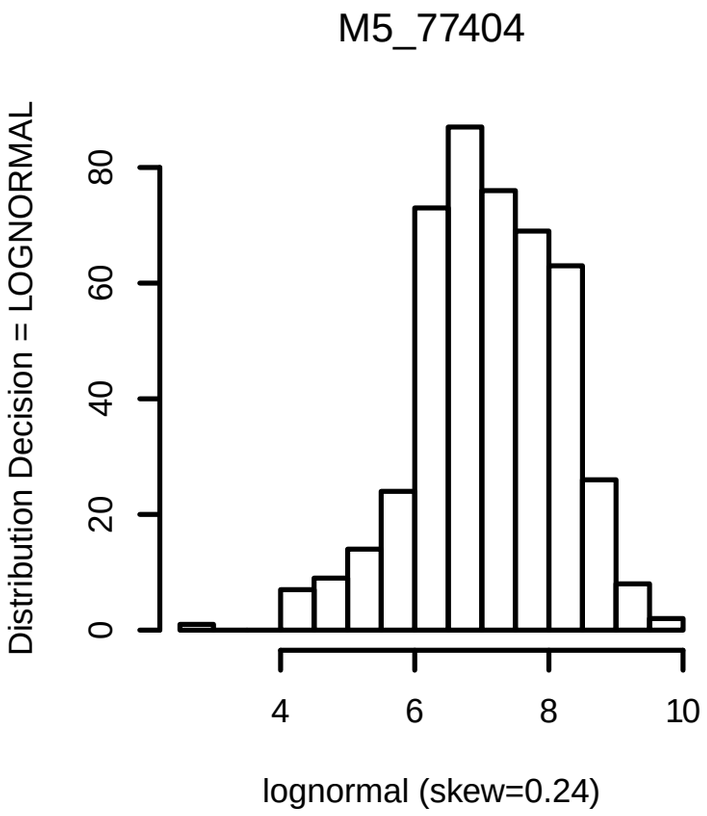

M5_71416
Distribution Decision = NORMAL
0
50
100
150
0
2000
6000
10000
normal (skew=0.12)

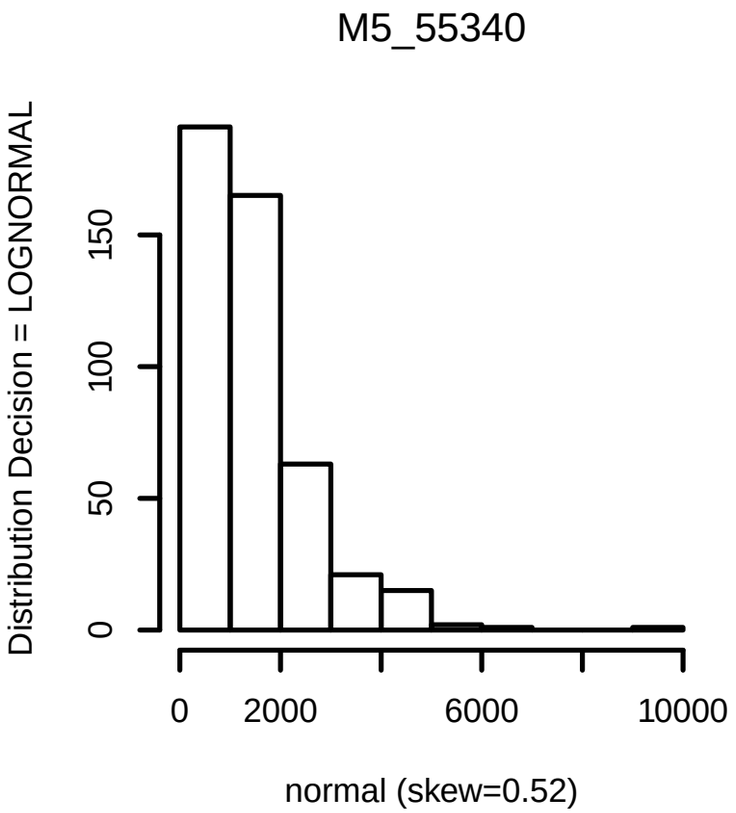

M5_71416
Distribution Decision = NORMAL
0
20
40
60
80
120
5
6
7
8
9
lognormal (skew=0.16)

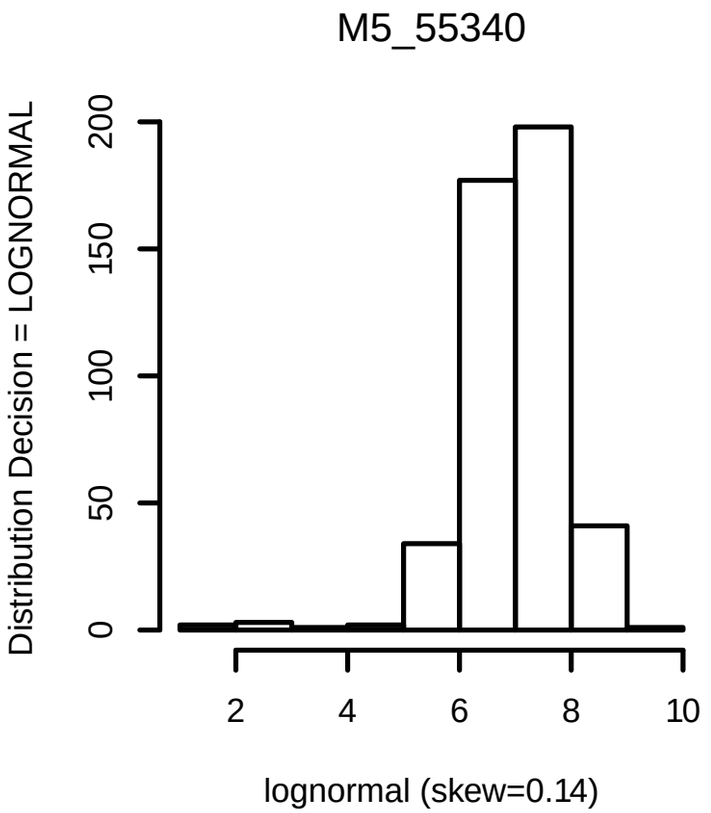

M5_26910
Distribution Decision = NORMAL
0
50
100
150
0
2000
4000
6000
8000
normal (skew=0.075)

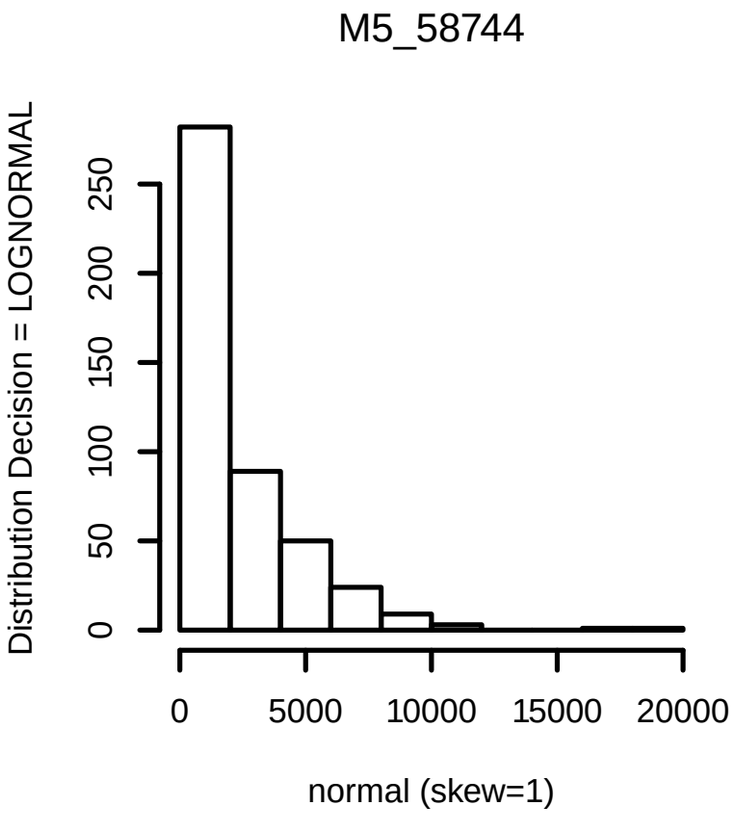

M5_26910
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
10
lognormal (skew=3.1)

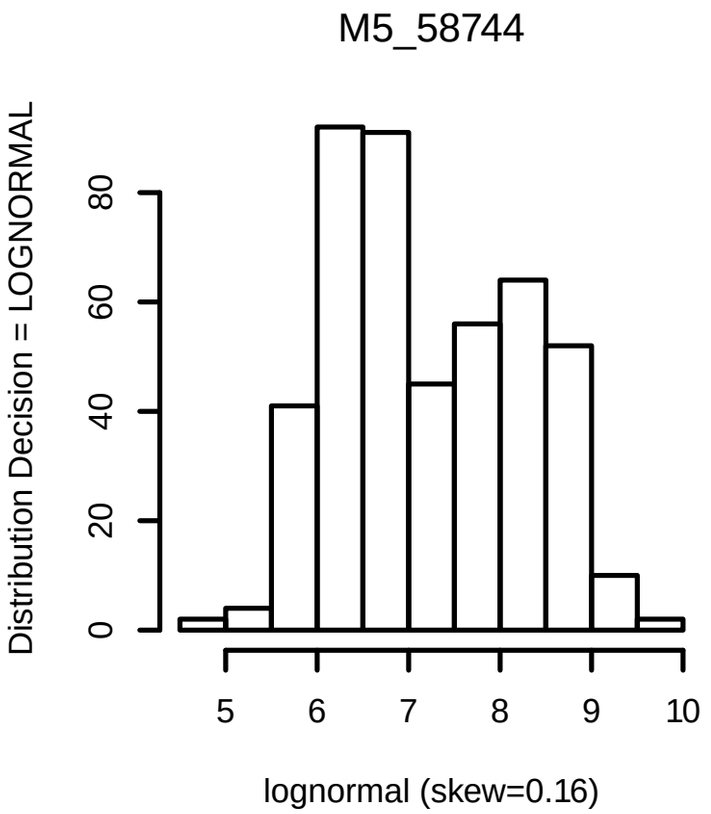

M5_77404
Distribution Decision = LOGNORMAL
0
50
100
150
250
0
5000
10000
15000
normal (skew=1)

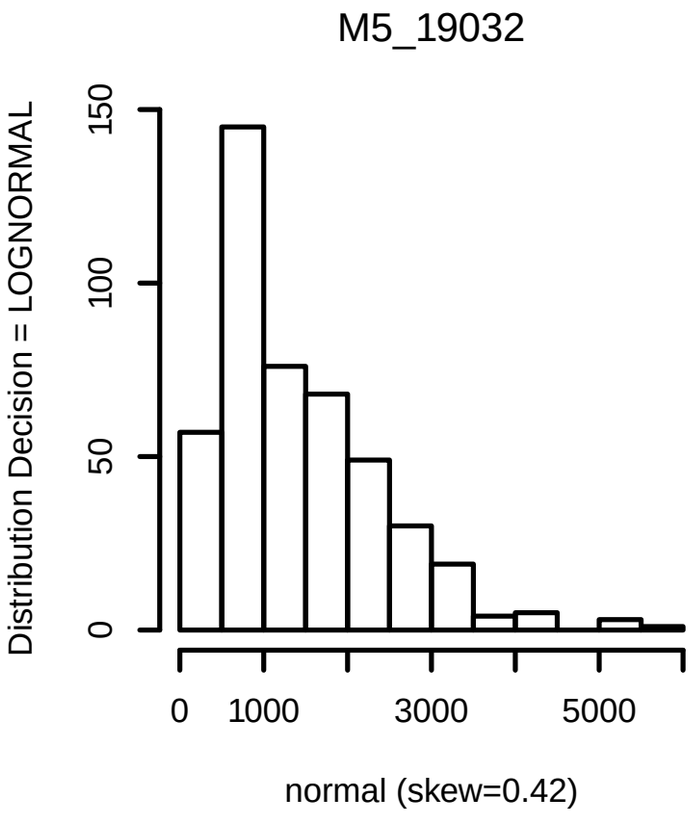

M5_77404
Distribution Decision = LOGNORMAL
0
20
40
60
80
4
6
8
10
lognormal (skew=0.24)

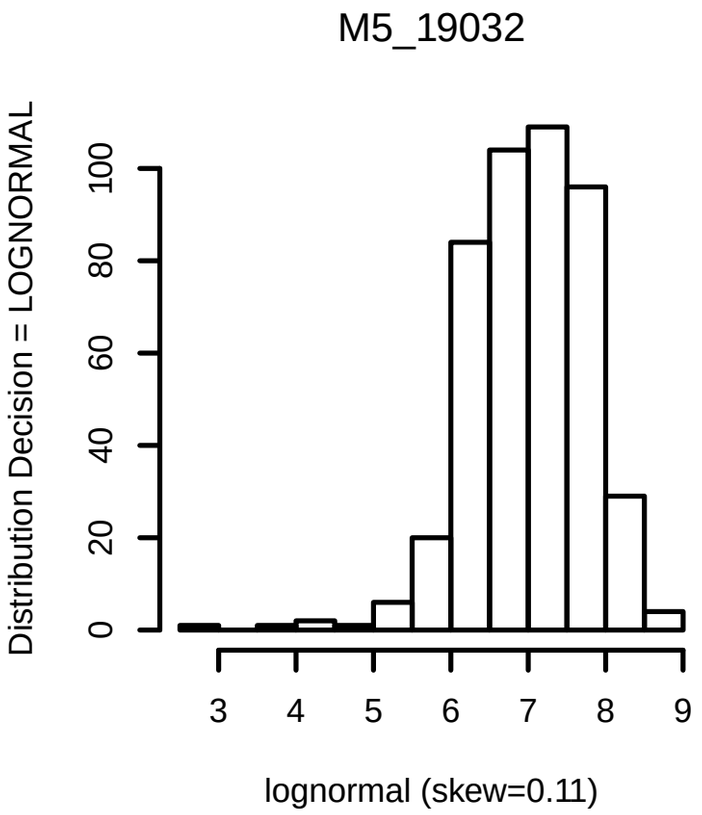

M5_55340
Distribution Decision = LOGNORMAL
0
50
100
150
0
2000
6000
10000
normal (skew=0.52)

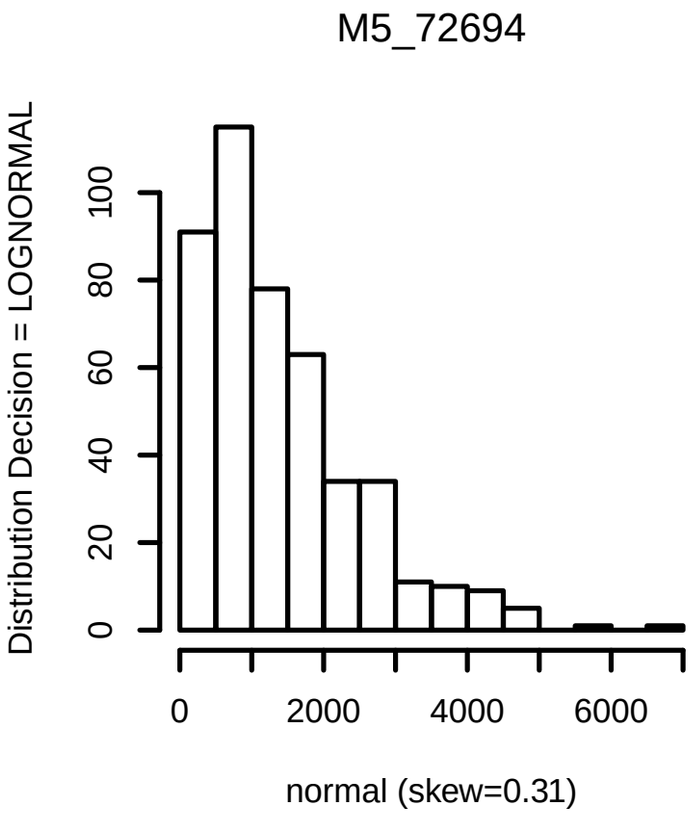

M5_55340
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
10
lognormal (skew=0.14)

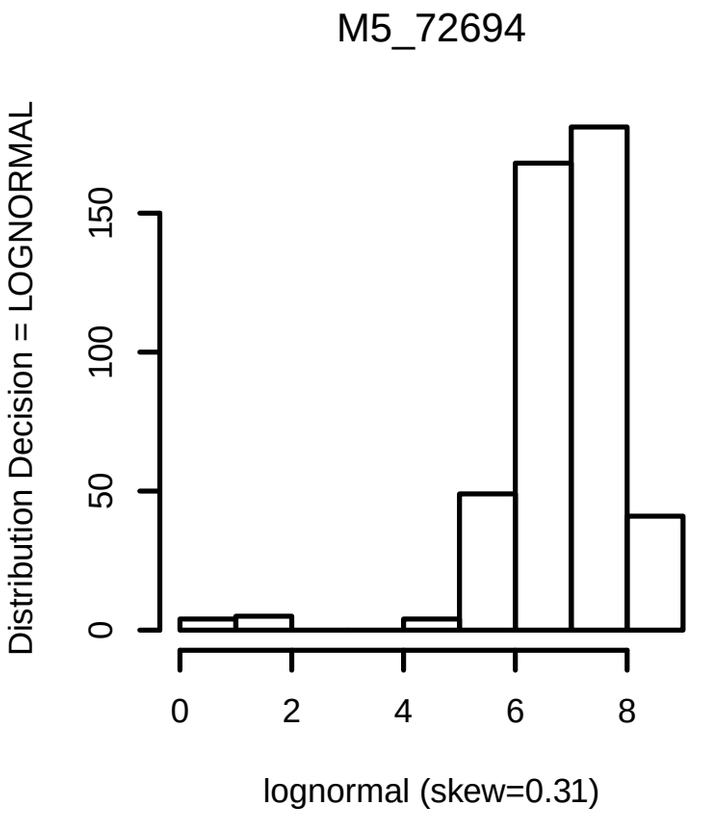

M5_58744
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
10000
15000
20000
normal (skew=1)

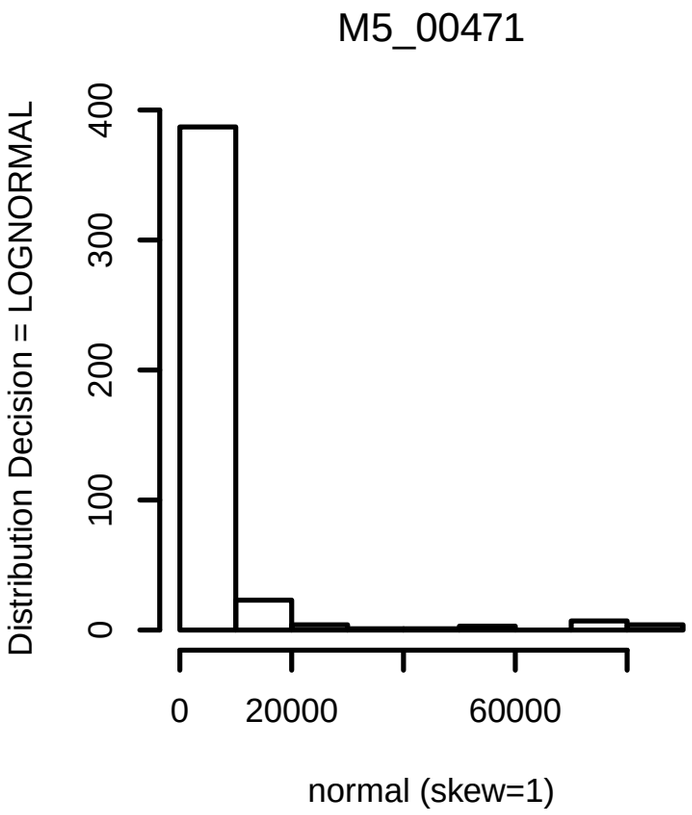

M5_58744
Distribution Decision = LOGNORMAL
0
20
40
60
80
5
6
7
8
9
10
lognormal (skew=0.16)

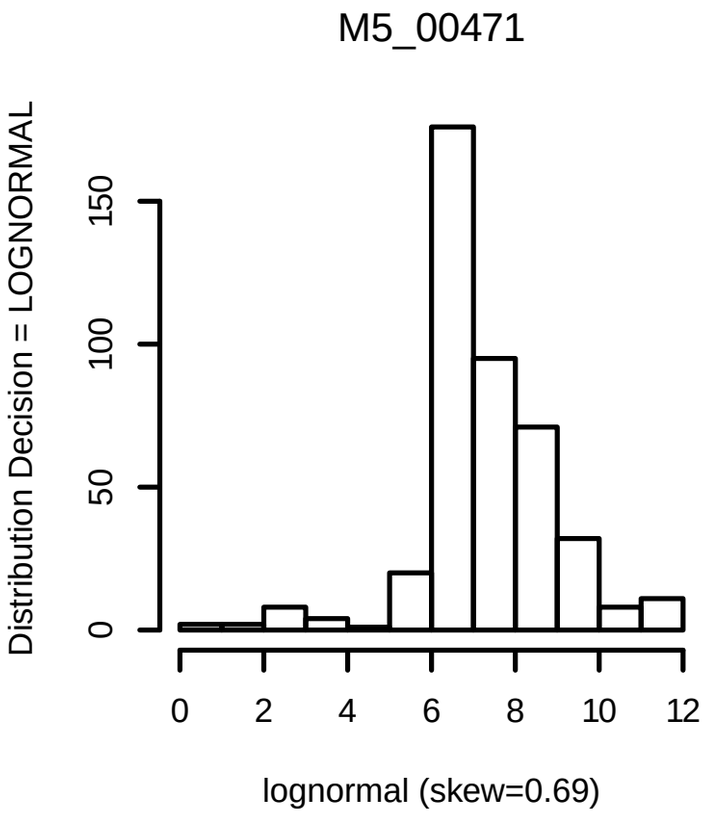

M5_19032
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
3000
5000
normal (skew=0.42)

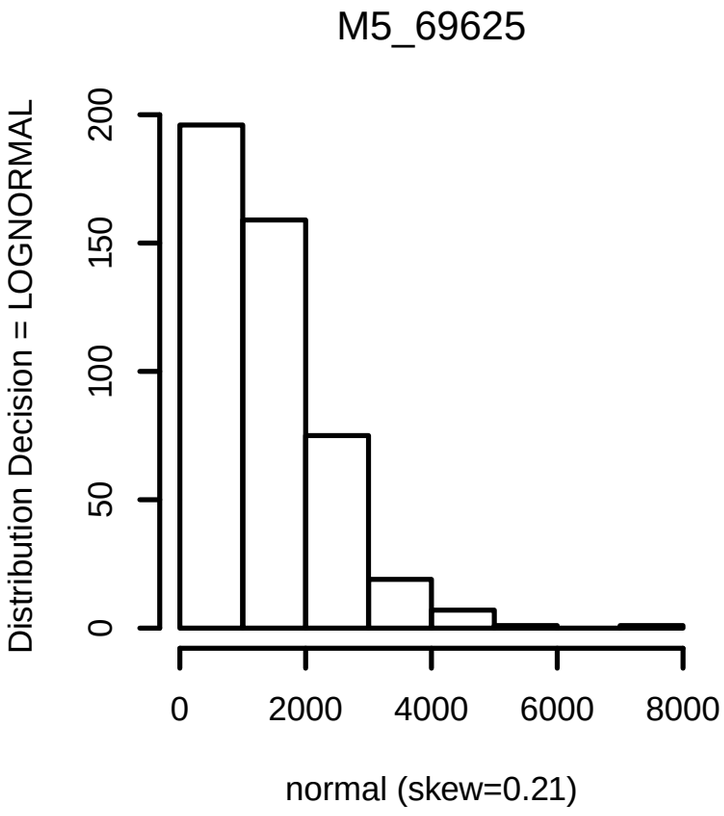

M5_19032
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
3
4
5
6
7
8
9
lognormal (skew=0.11)

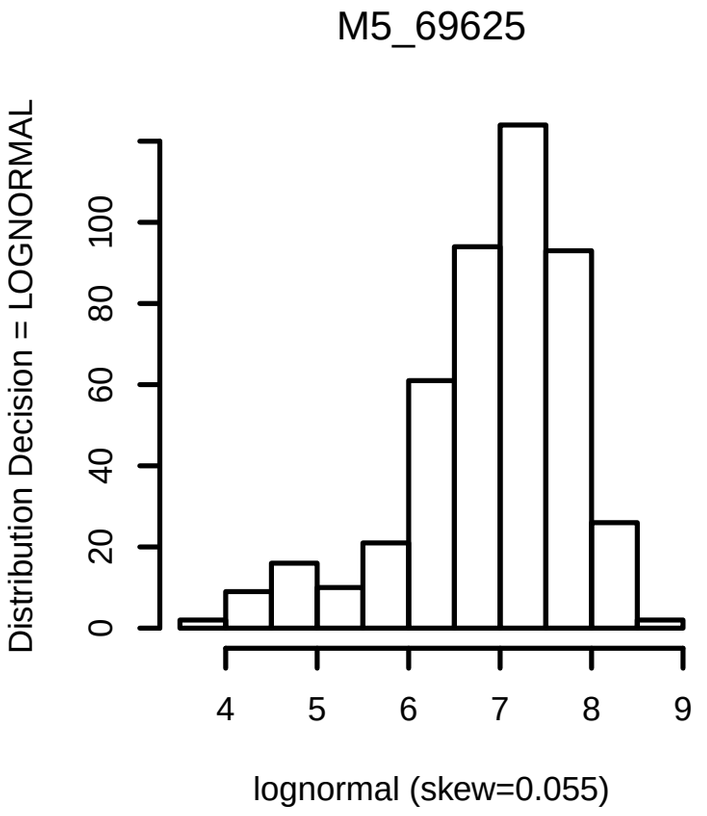

M5_72694
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2000
4000
6000
normal (skew=0.31)

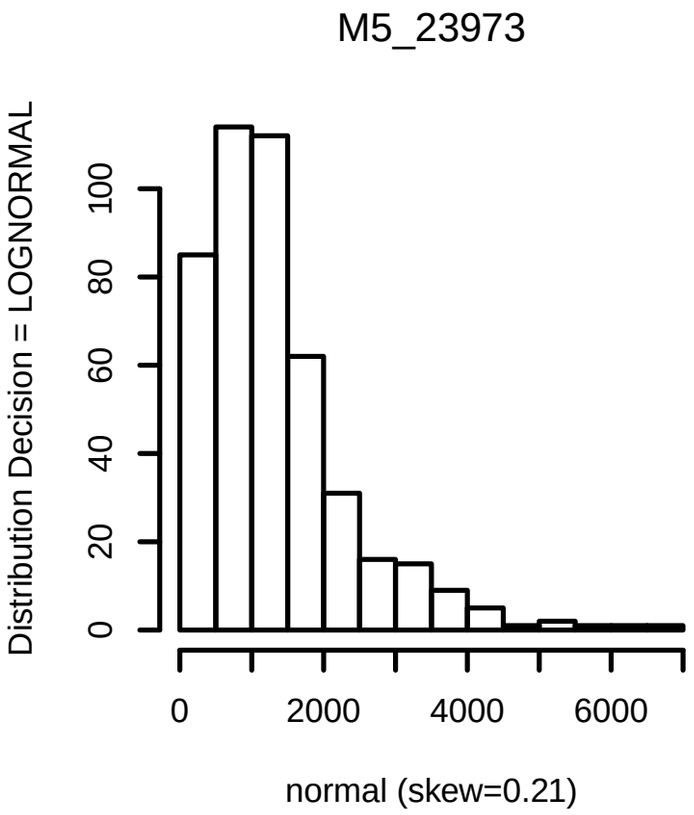

M5_72694
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=0.31)

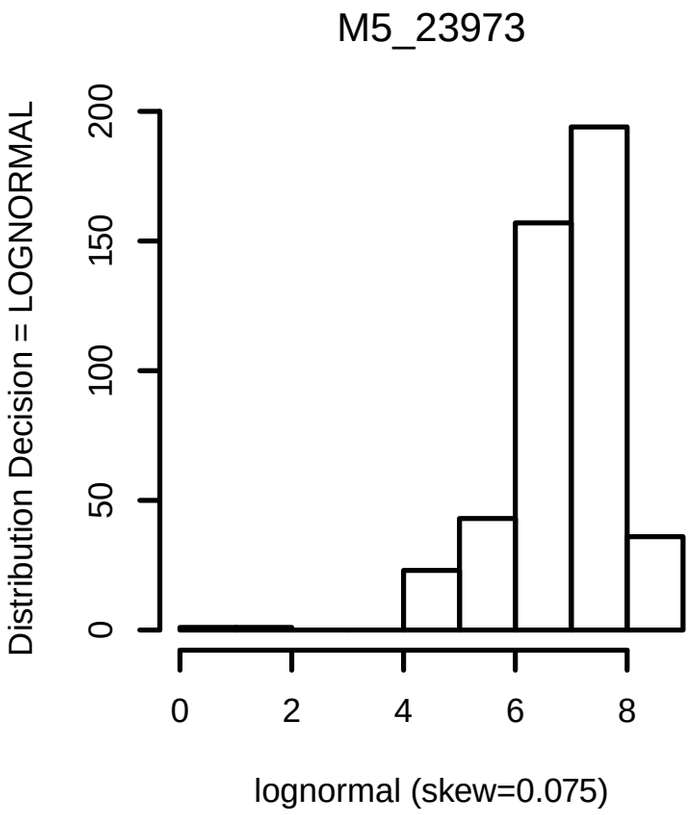

M5_00471
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
20000
60000
normal (skew=1)

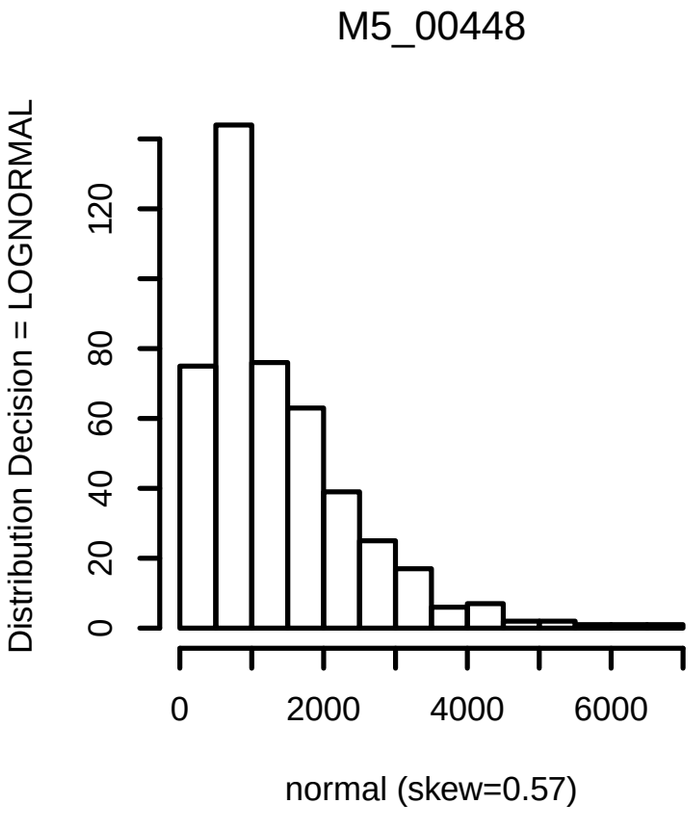

M5_00471
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
12
lognormal (skew=0.69)

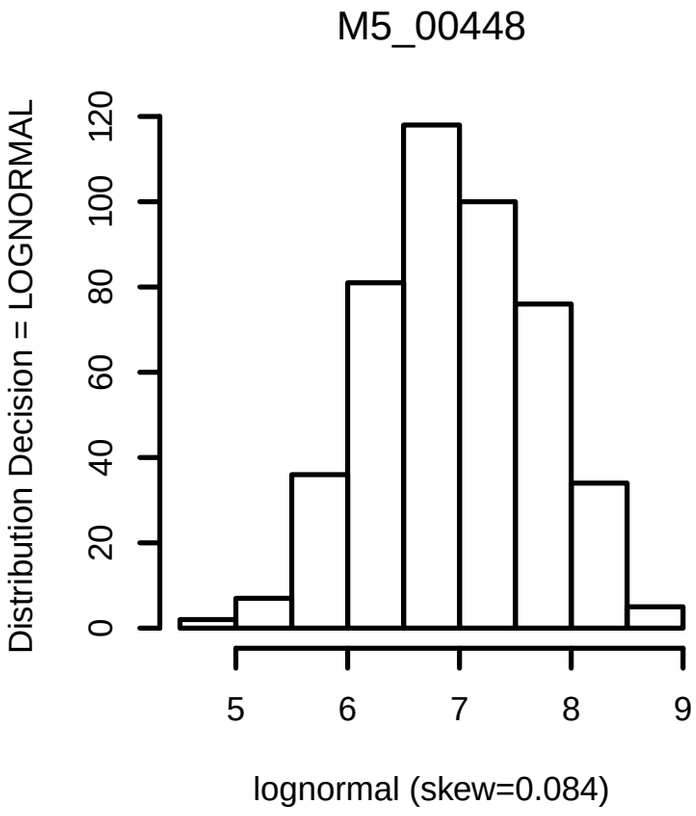

M5_69625
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2000
4000
6000
8000
normal (skew=0.21)

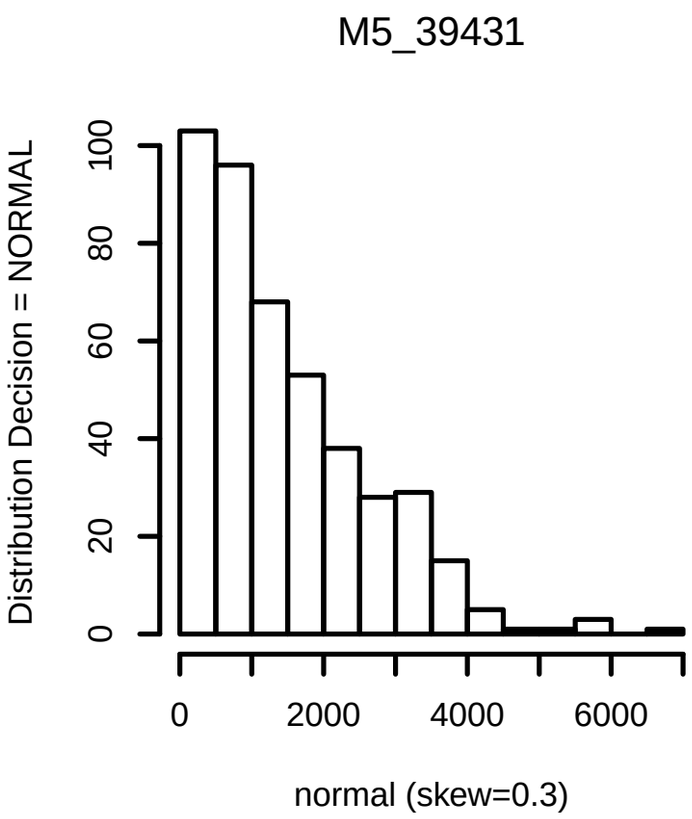

M5_69625
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
9
lognormal (skew=0.055)

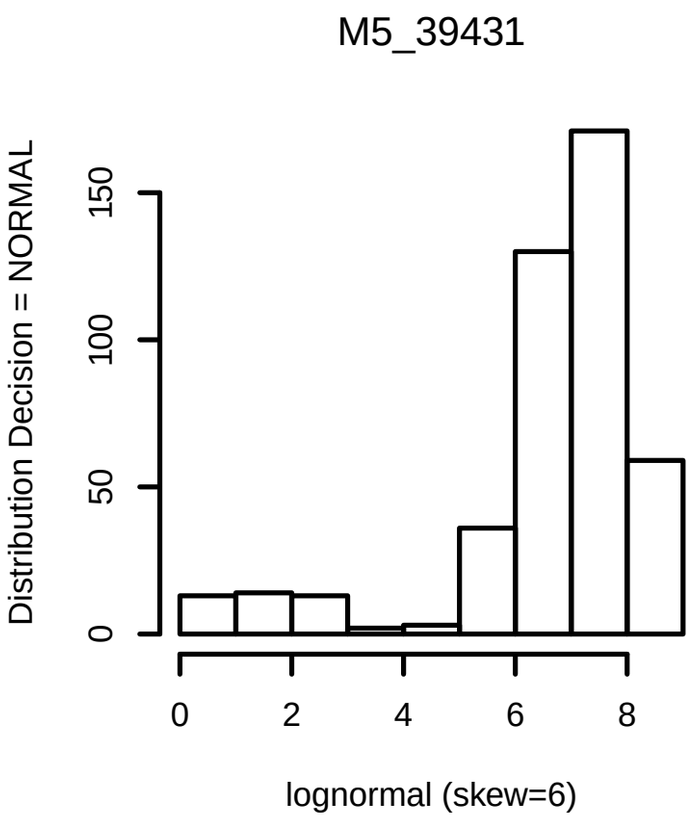

M5_23973
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2000
4000
6000
normal (skew=0.21)

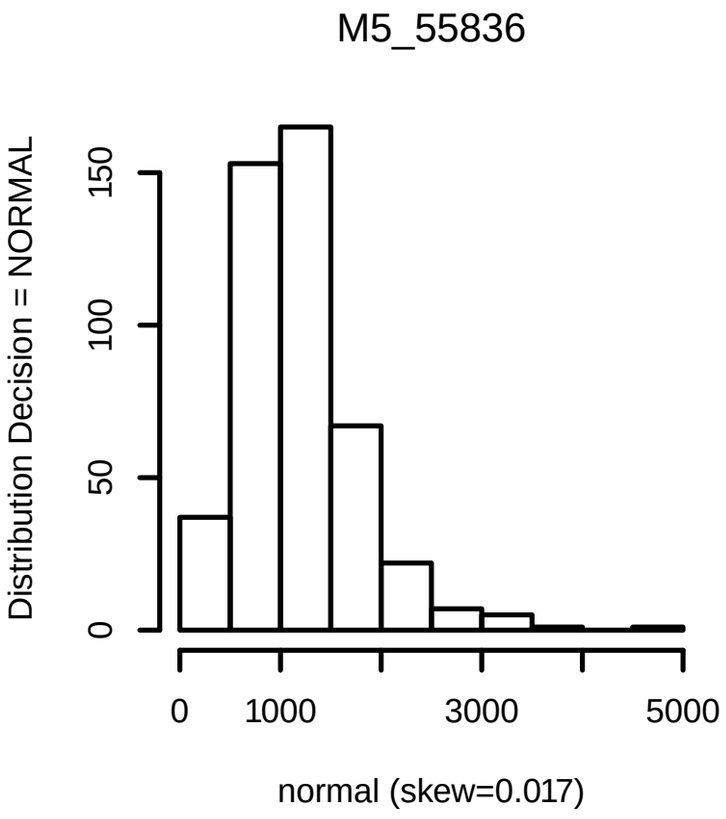

M5_23973
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.075)

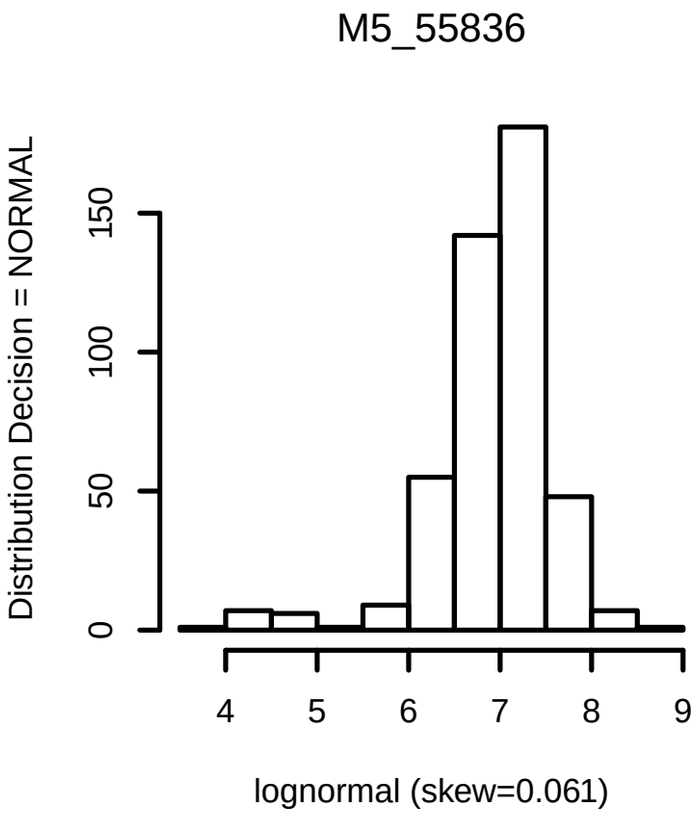

M5_00448
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
2000
4000
6000
normal (skew=0.57)

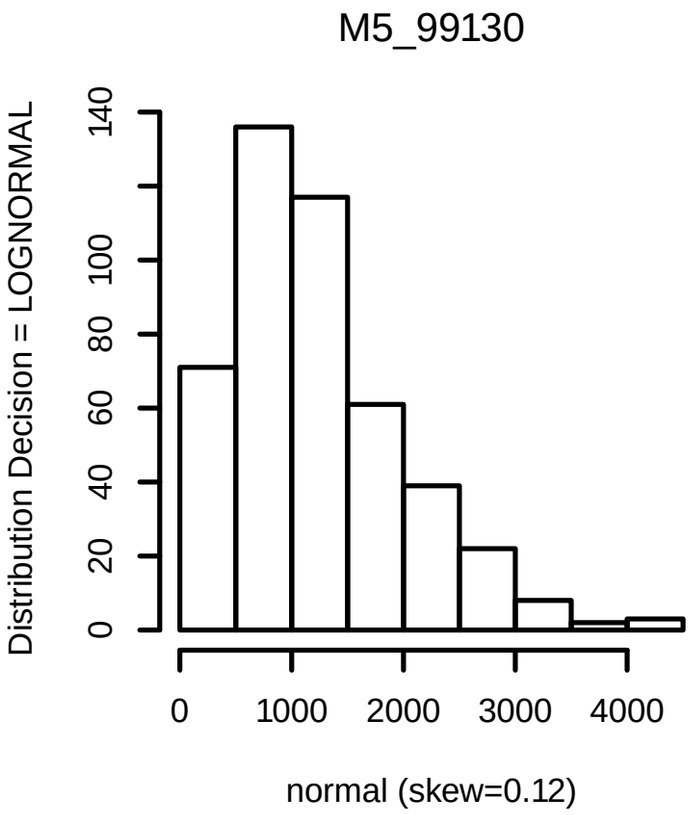

M5_00448
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
5
6
7
8
9
lognormal (skew=0.084)

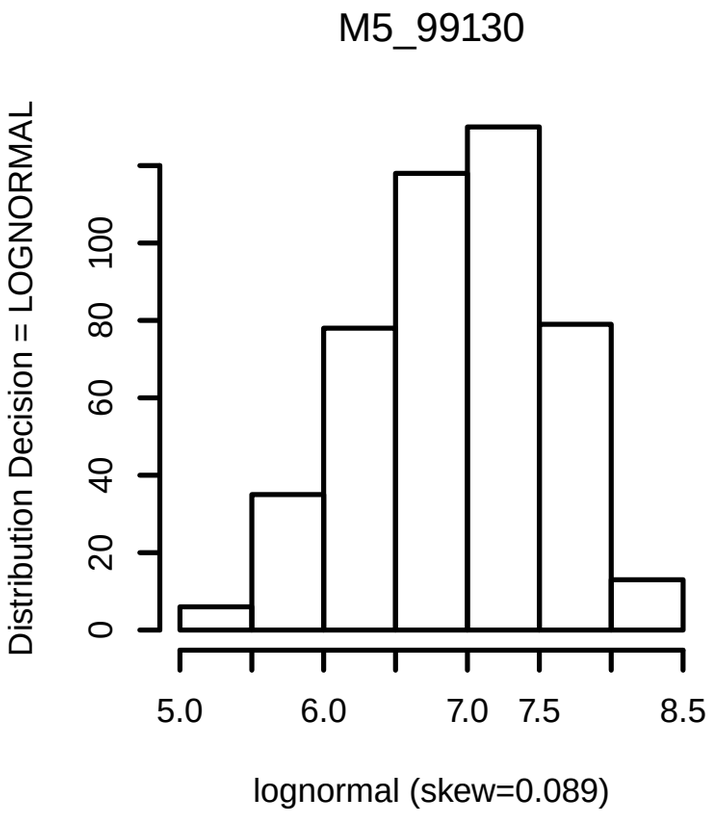

M5_39431
Distribution Decision = NORMAL
0
20
40
60
80
100
0
2000
4000
6000
normal (skew=0.3)

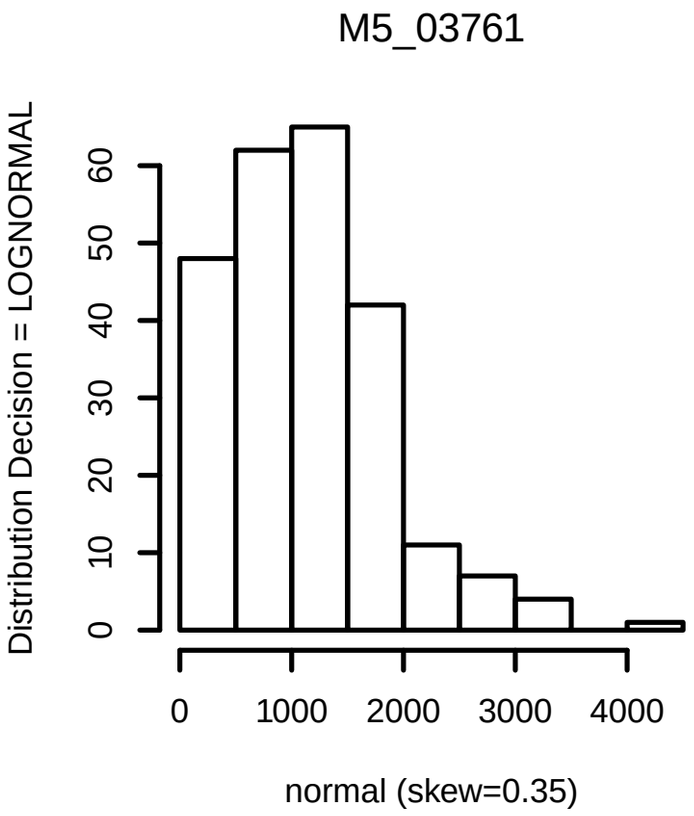

M5_39431
Distribution Decision = NORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=6)

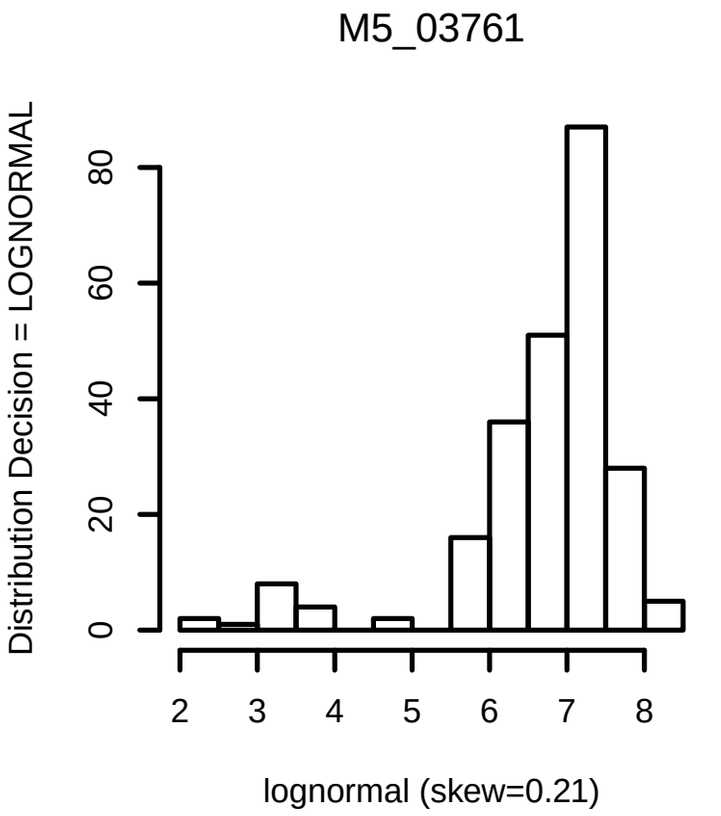

M5_55836
Distribution Decision = NORMAL
0
50
100
150
0
1000
3000
5000
normal (skew=0.017)

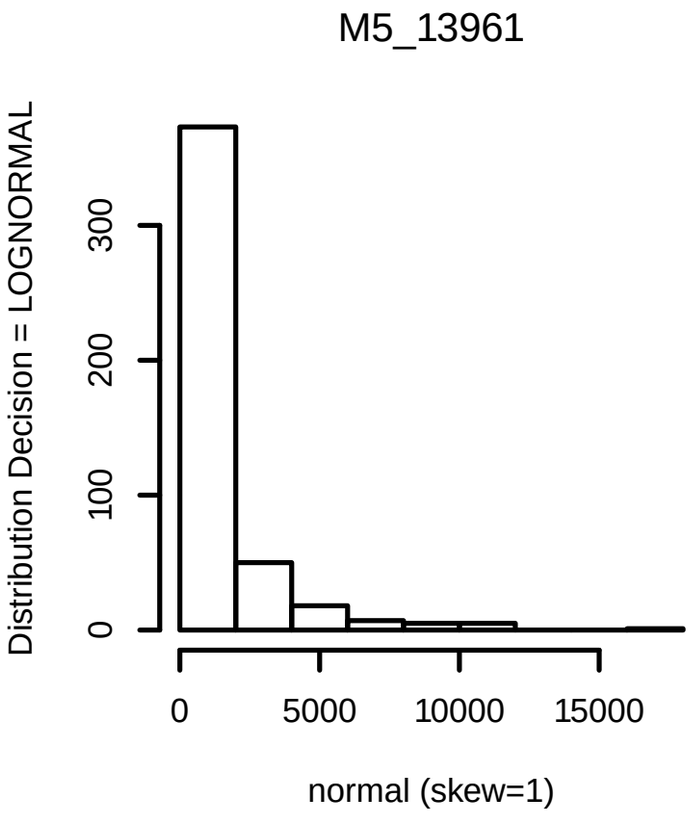

M5_55836
Distribution Decision = NORMAL
0
50
100
150
4
5
6
7
8
9
lognormal (skew=0.061)

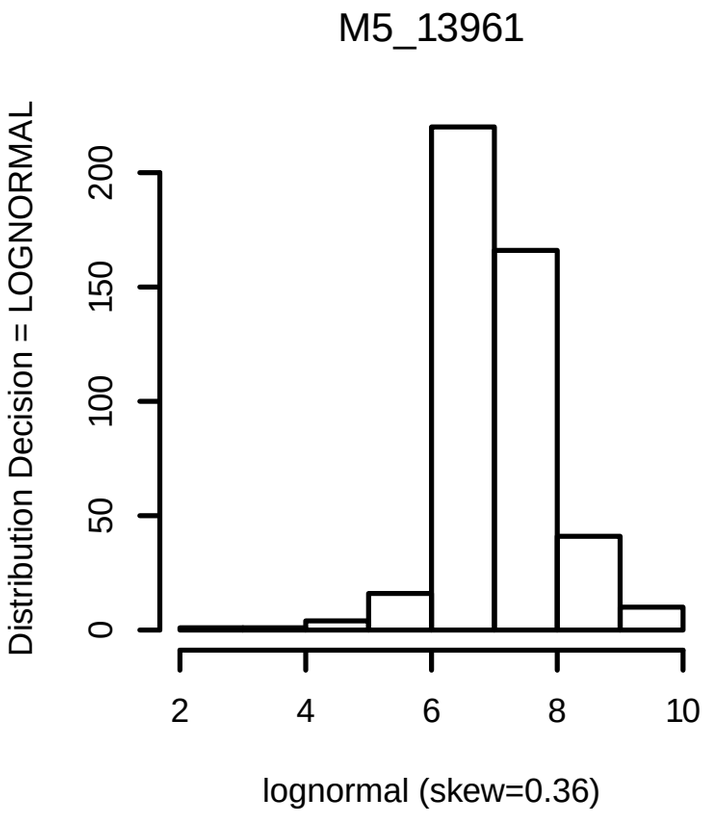

M5_99130
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
0
1000
2000
3000
4000
normal (skew=0.12)

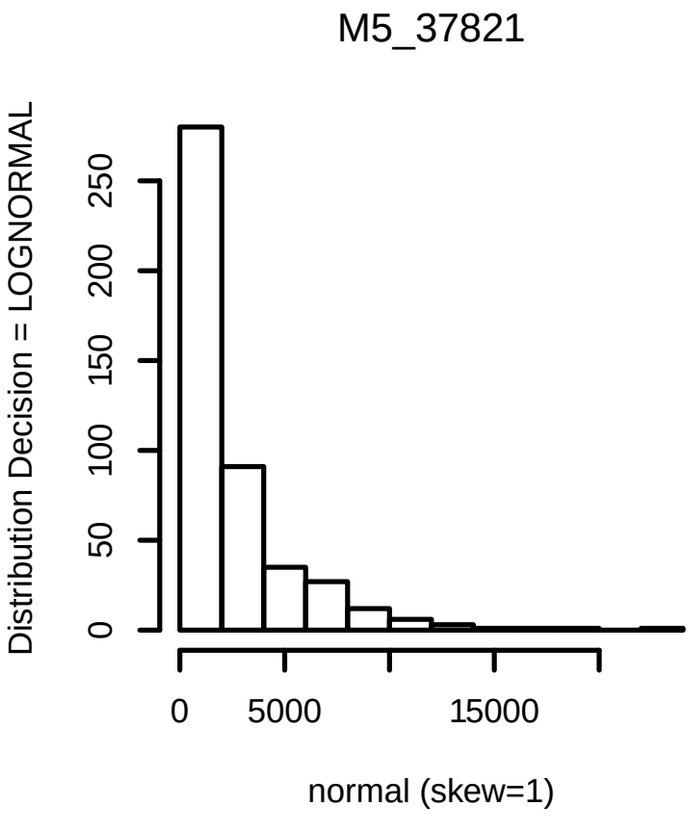

M5_99130
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
5.0
6.0
7.0
7.5
8.5
lognormal (skew=0.089)

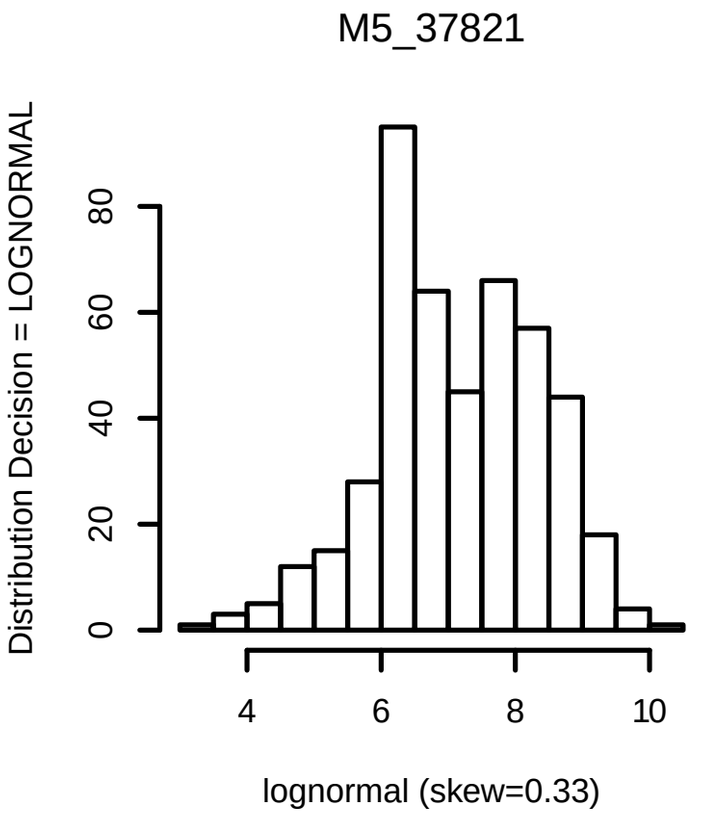

M5_03761
Distribution Decision = LOGNORMAL
0
10
20
30
40
50
60
0
1000
2000
3000
4000
normal (skew=0.35)

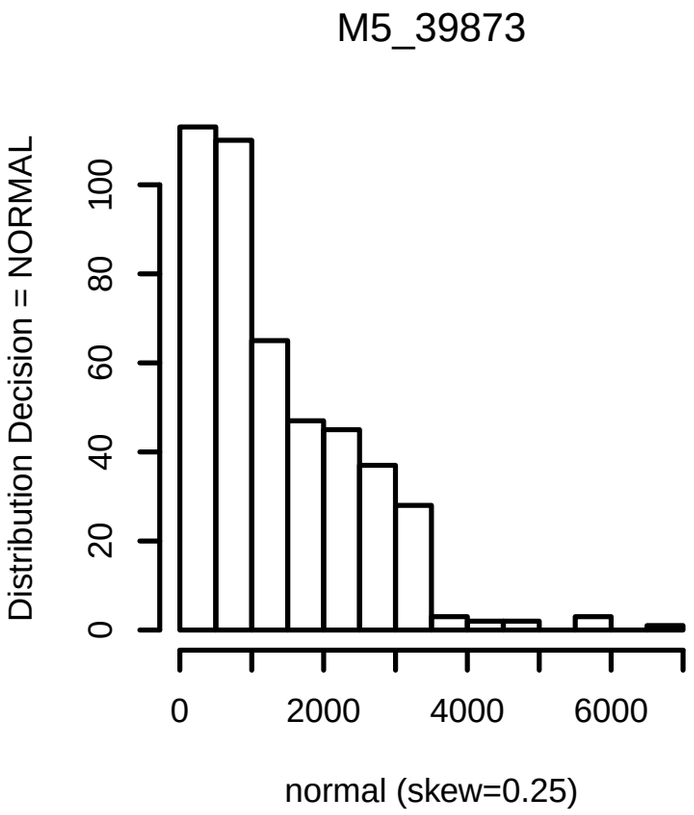

M5_03761
Distribution Decision = LOGNORMAL
0
20
40
60
80
2
3
4
5
6
7
8
lognormal (skew=0.21)

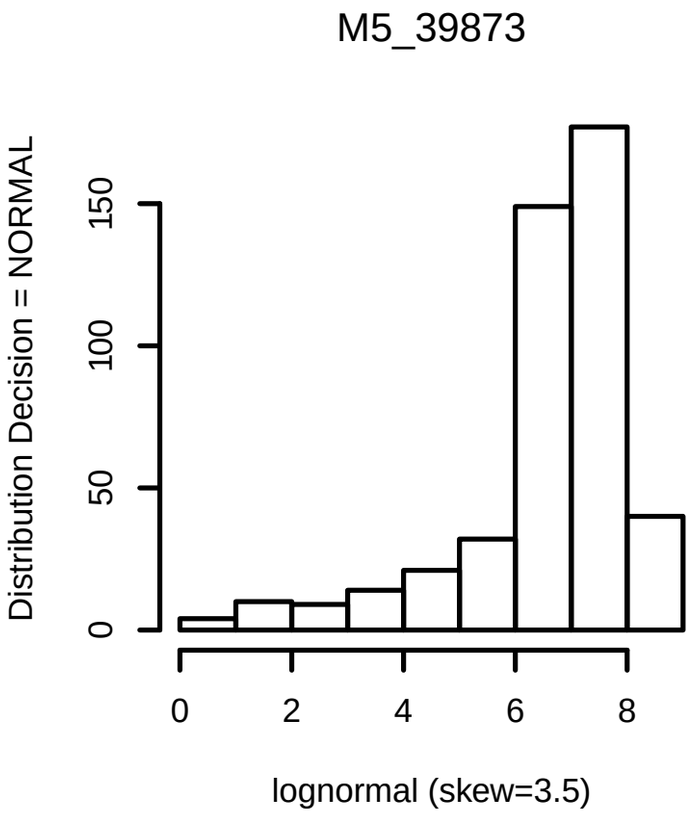

M5_13961
Distribution Decision = LOGNORMAL
0
100
200
300
0
5000
10000
15000
normal (skew=1)

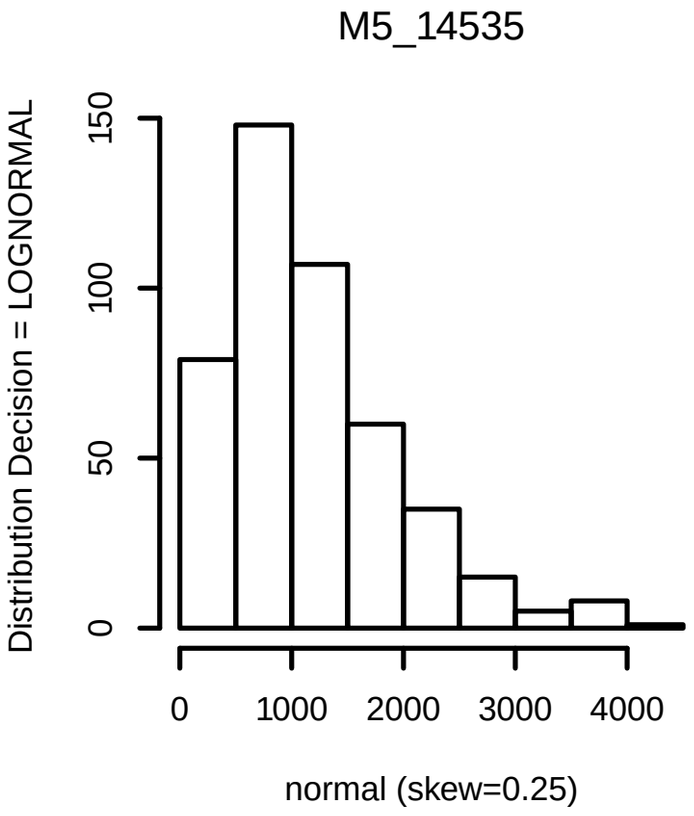

M5_13961
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
10
lognormal (skew=0.36)

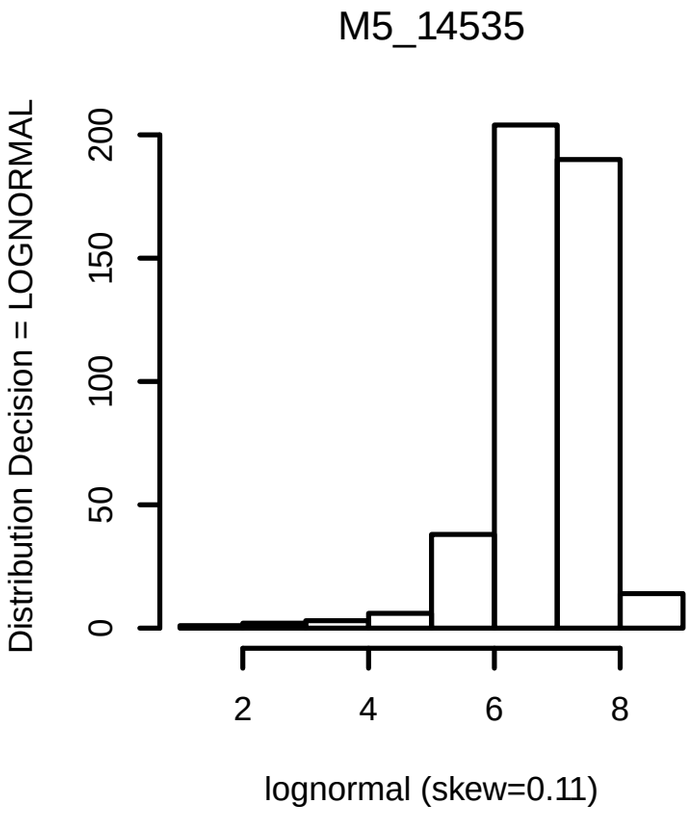

M5_37821
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
15000
normal (skew=1)

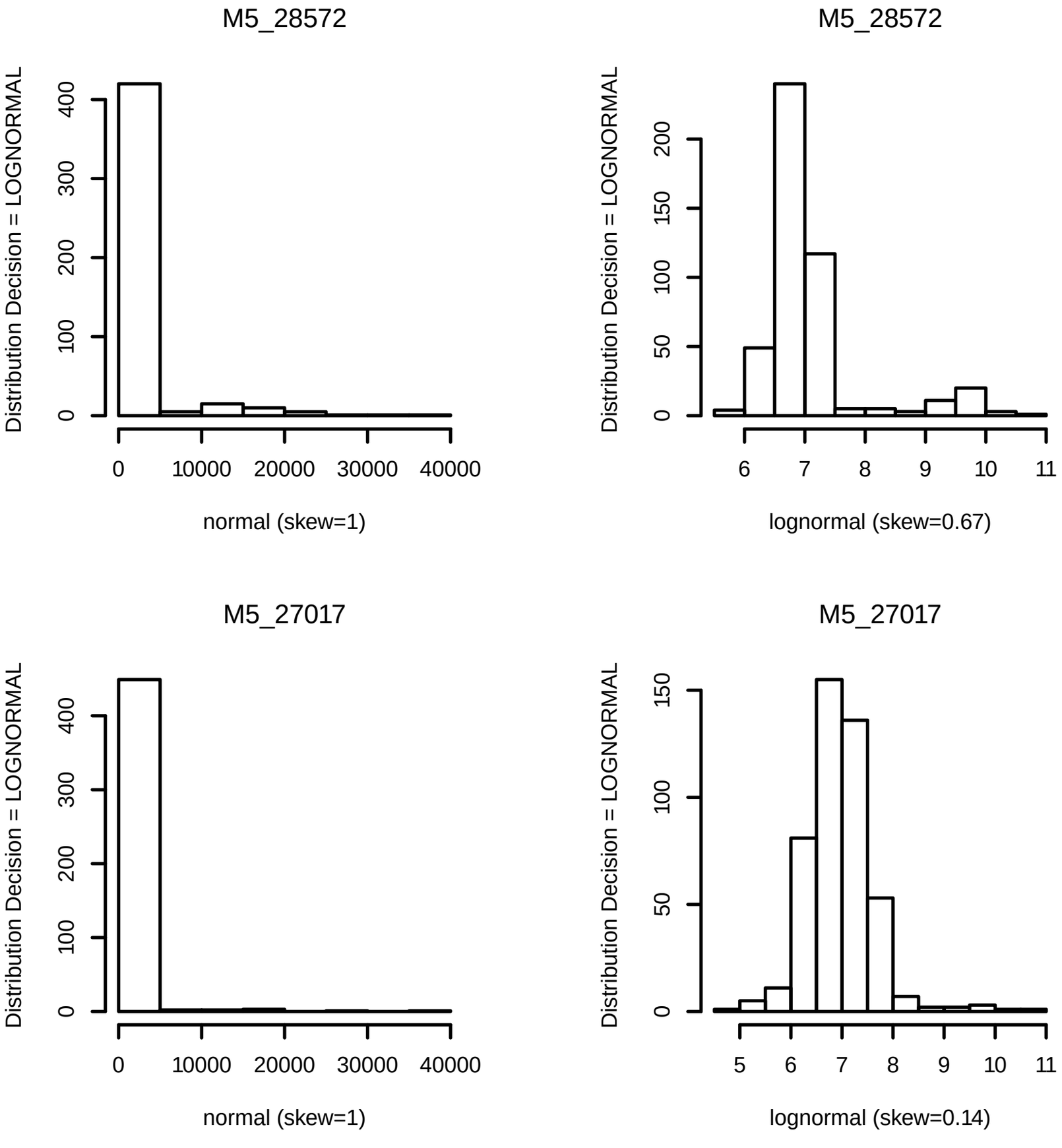

M5_37821
Distribution Decision = LOGNORMAL
0
20
40
60
80
4
6
8
10
lognormal (skew=0.33)

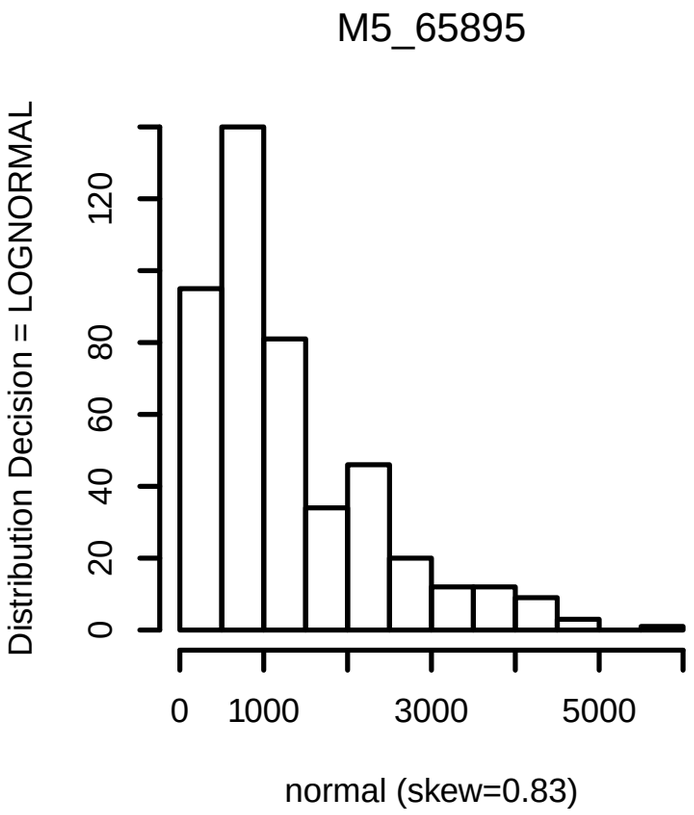

M5_39873
Distribution Decision = NORMAL
0
20
40
60
80
100
0
2000
4000
6000
normal (skew=0.25)

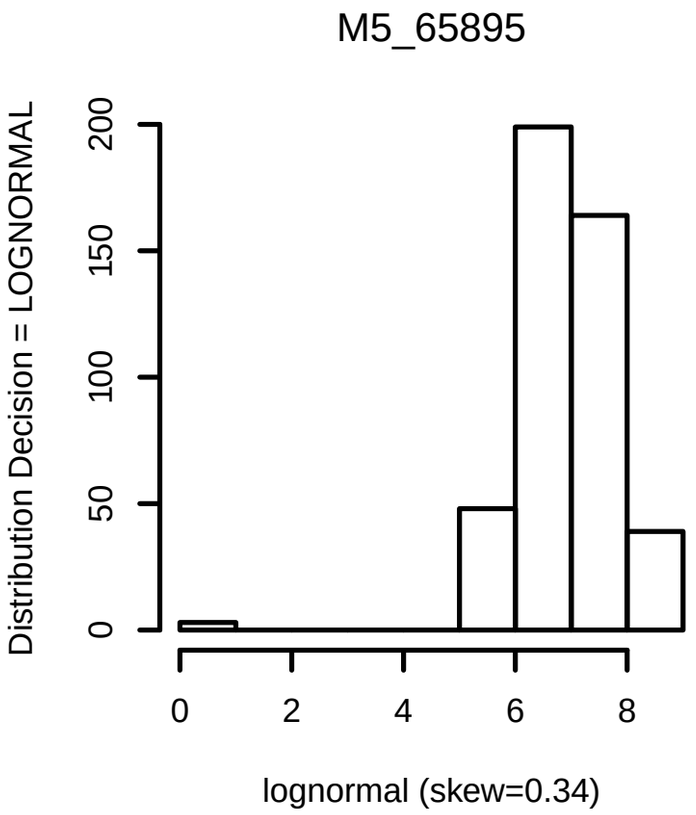

M5_39873
Distribution Decision = NORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=3.5)

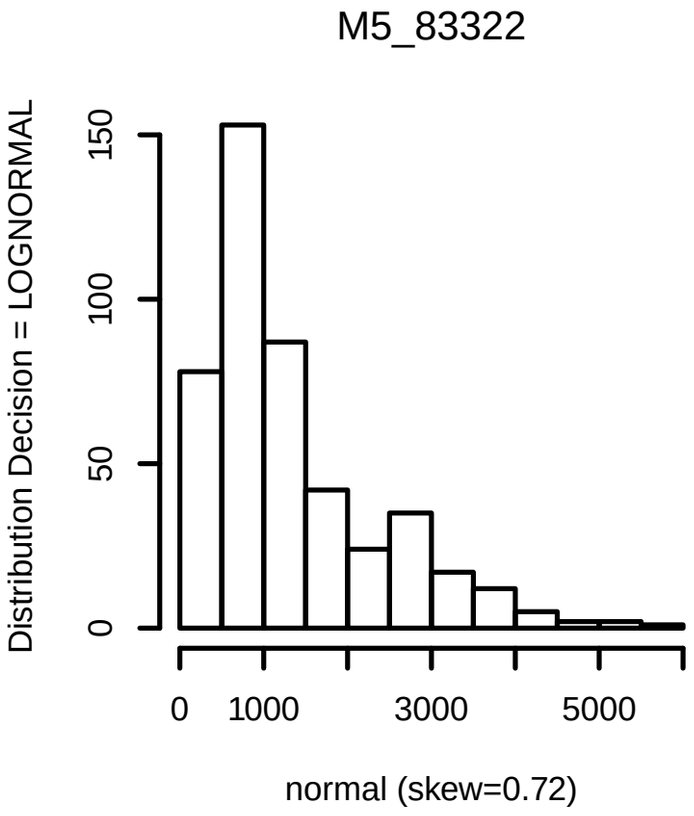

M5_14535
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.25)

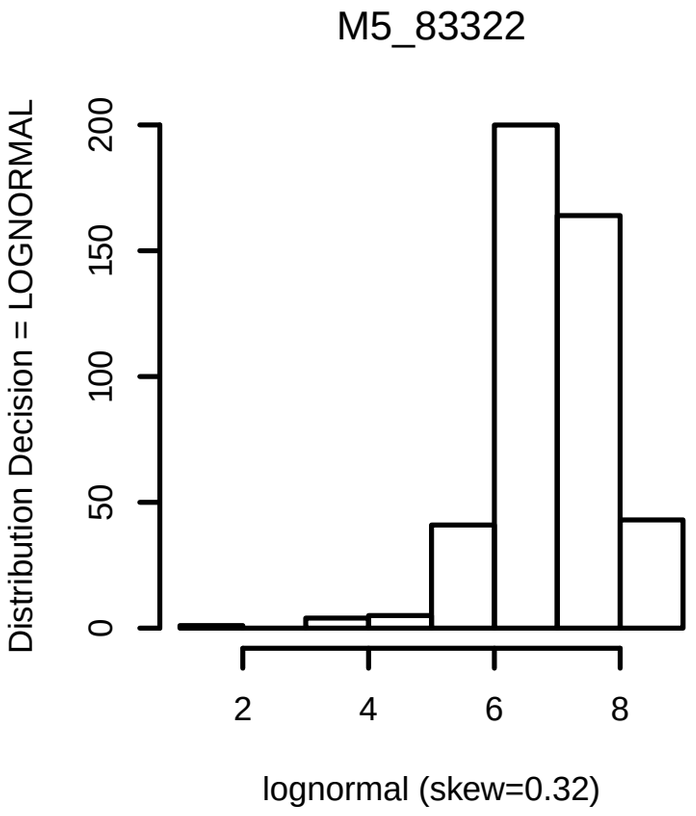

M5_14535
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
lognormal (skew=0.11)

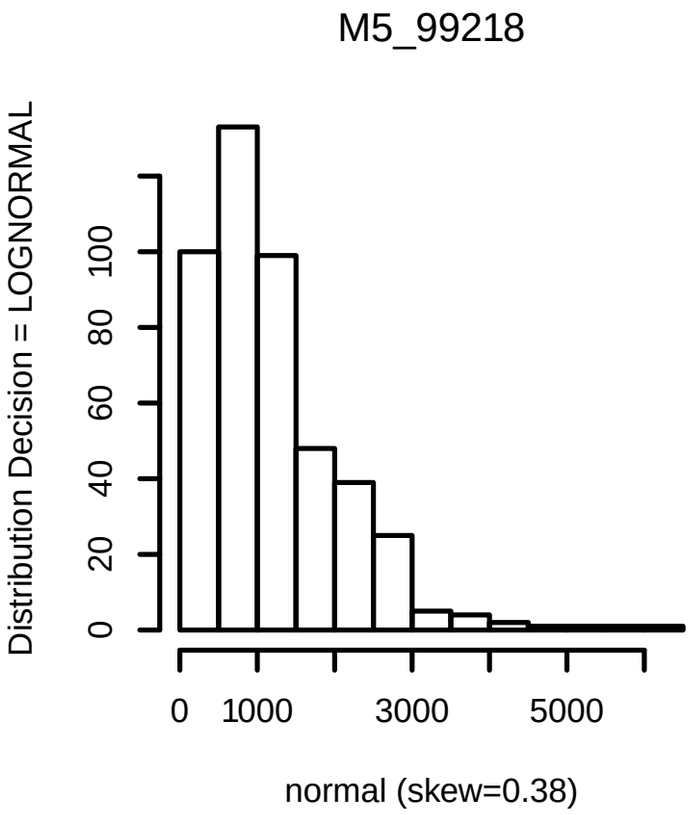

M5_28572
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
20000
30000
40000
normal (skew=1)
M5_28572
Distribution Decision = LOGNORMAL
0
50
100
150
200
6
7
8
9
10
11
lognormal (skew=0.67)
M5_27017
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
20000
30000
40000
normal (skew=1)
M5_27017
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
10
11
lognormal (skew=0.14)

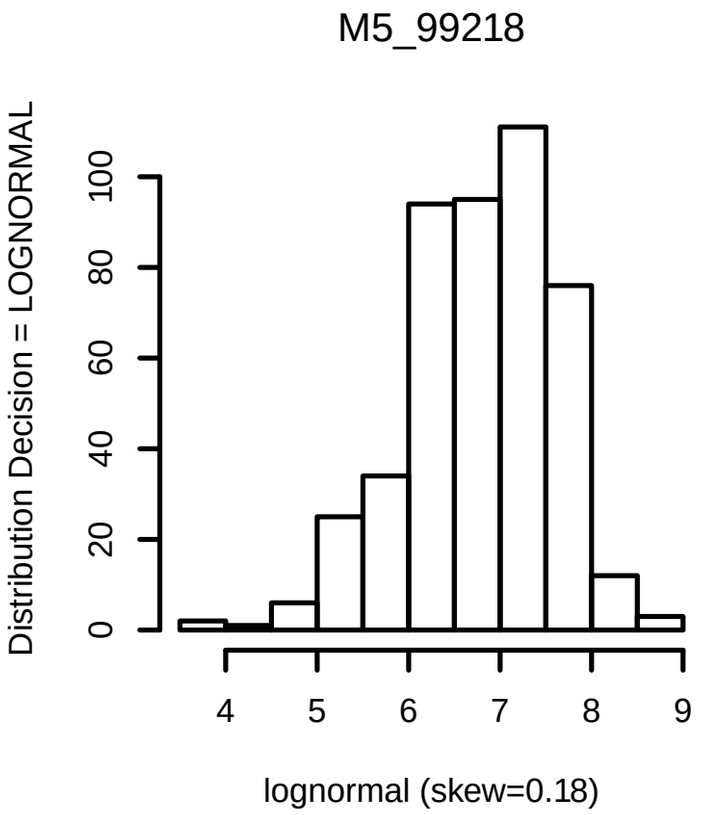

M5_65895
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
1000
3000
5000
normal (skew=0.83)

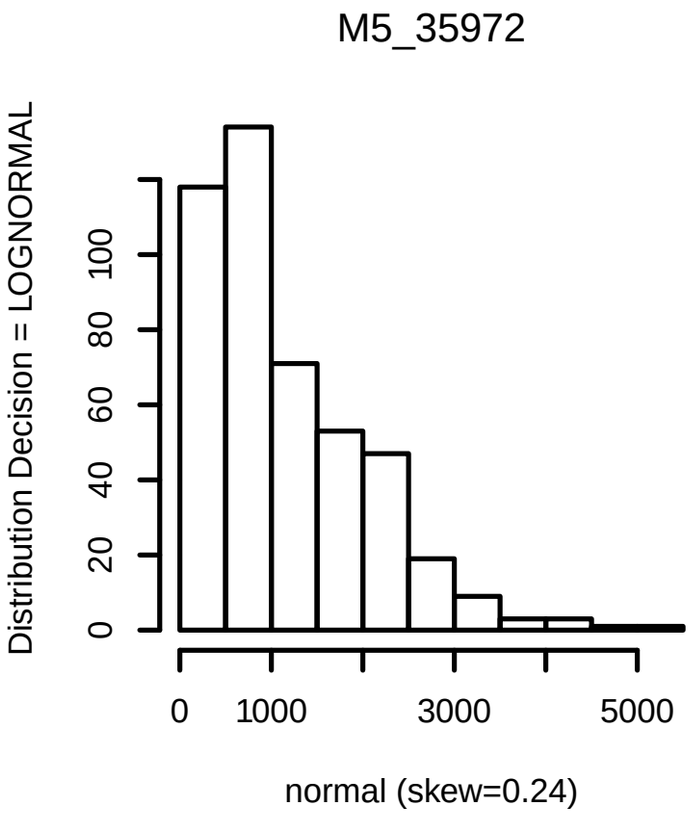

M5_65895
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.34)

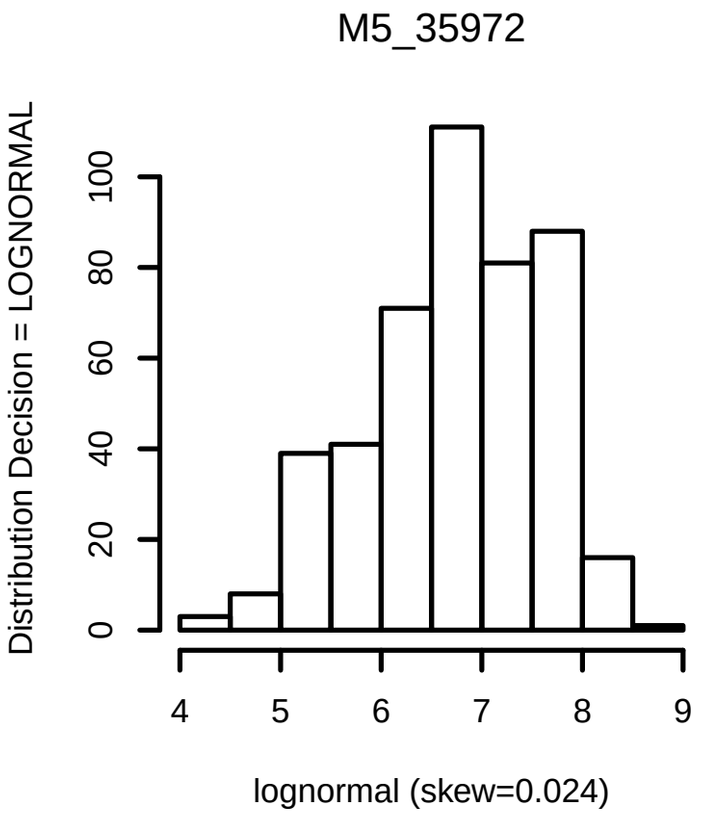

M5_83322
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
3000
5000
normal (skew=0.72)

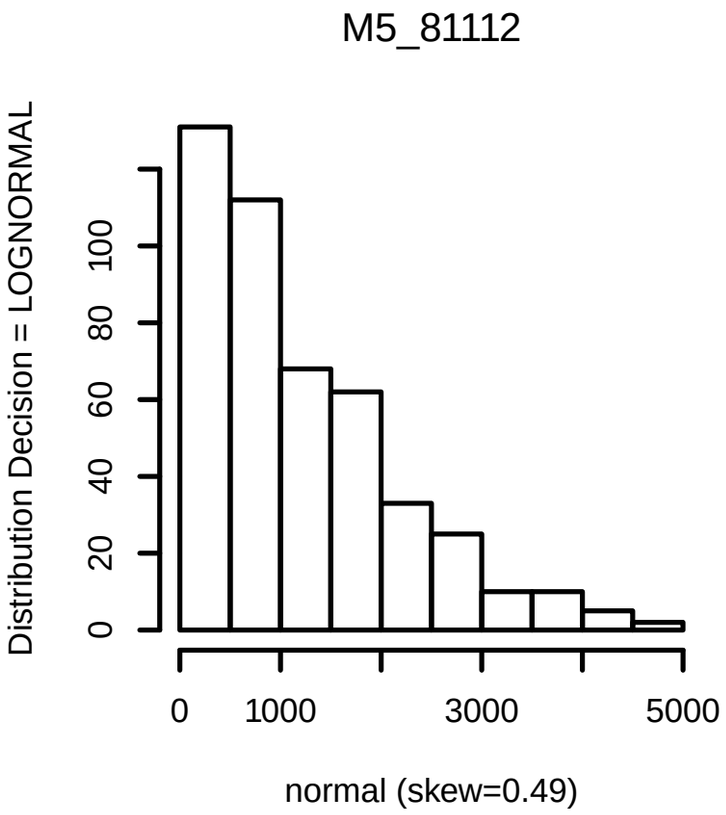

M5_83322
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
lognormal (skew=0.32)

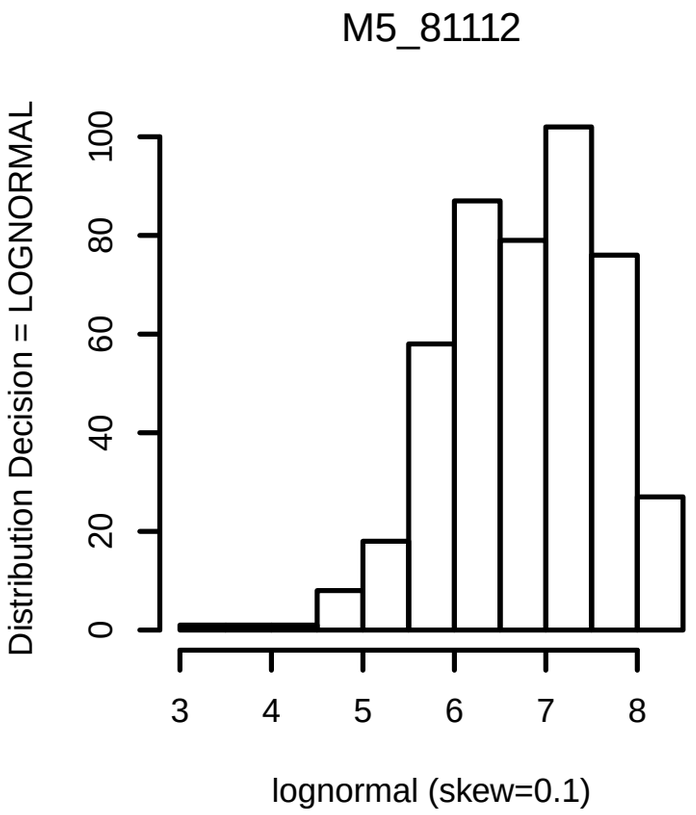

M5_99218
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
1000
3000
5000
normal (skew=0.38)

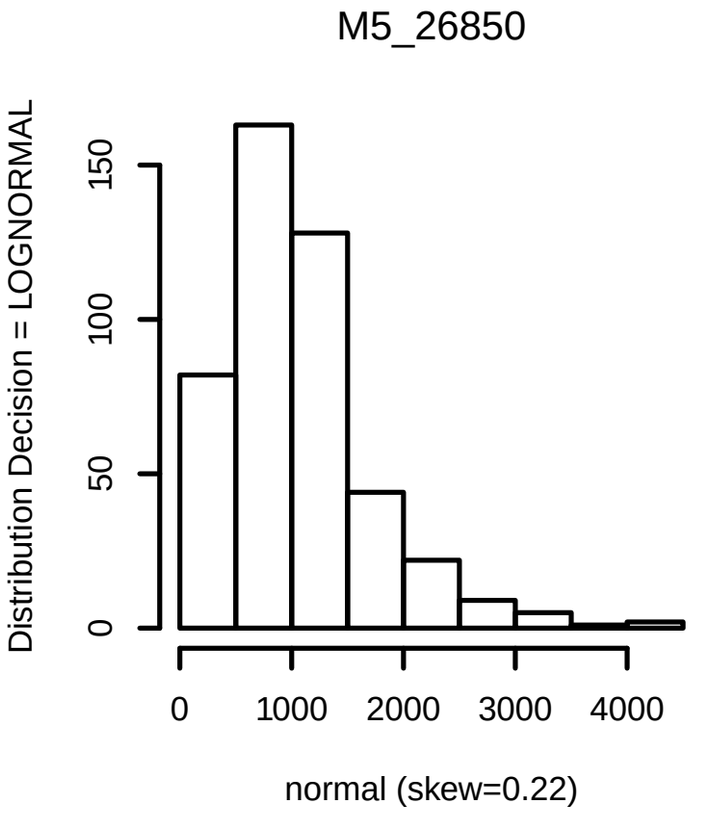

M5_99218
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
9
lognormal (skew=0.18)

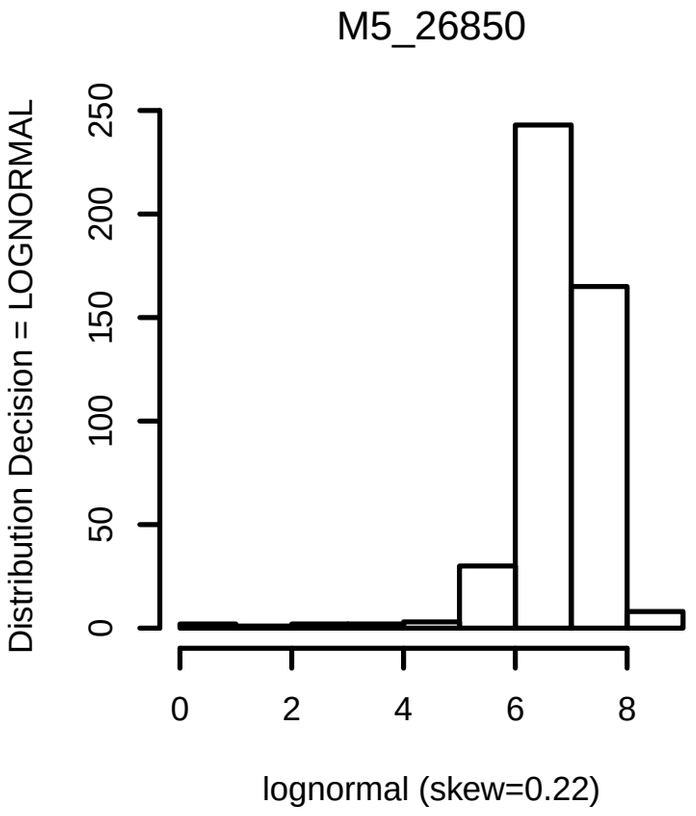

M5_35972
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
1000
3000
5000
normal (skew=0.24)

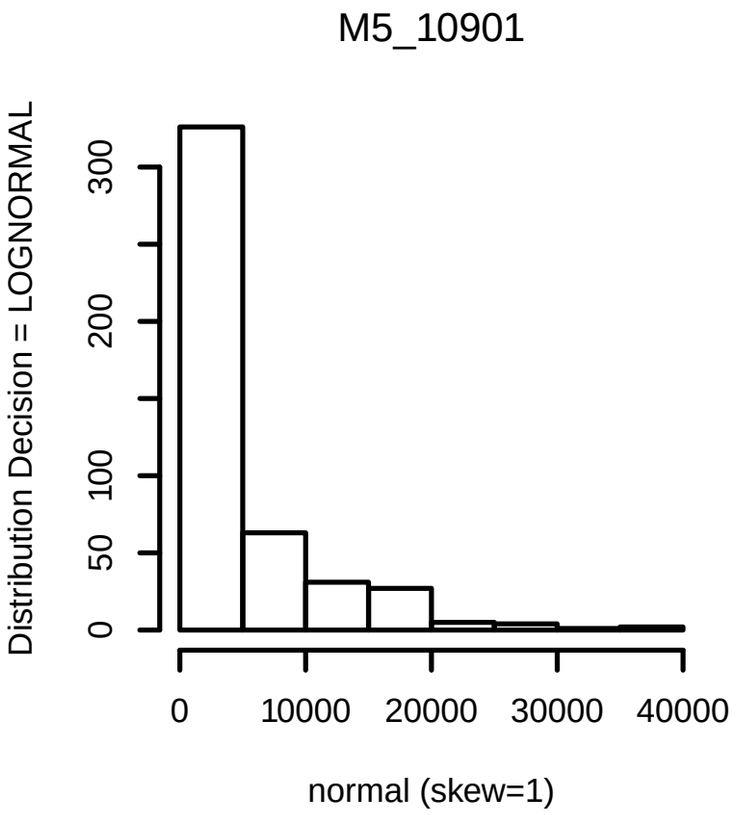

M5_35972
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
9
lognormal (skew=0.024)

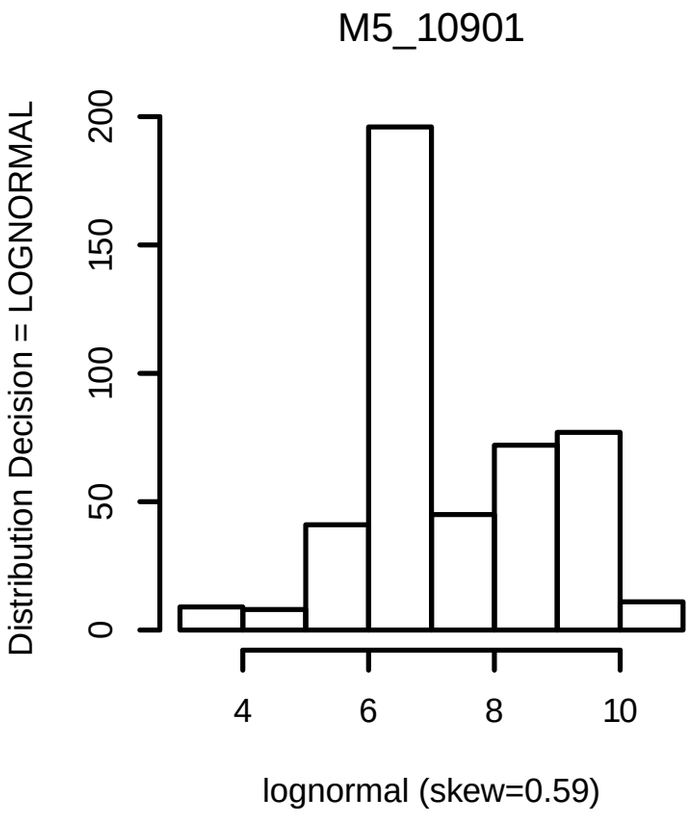

M5_81112
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
1000
3000
5000
normal (skew=0.49)

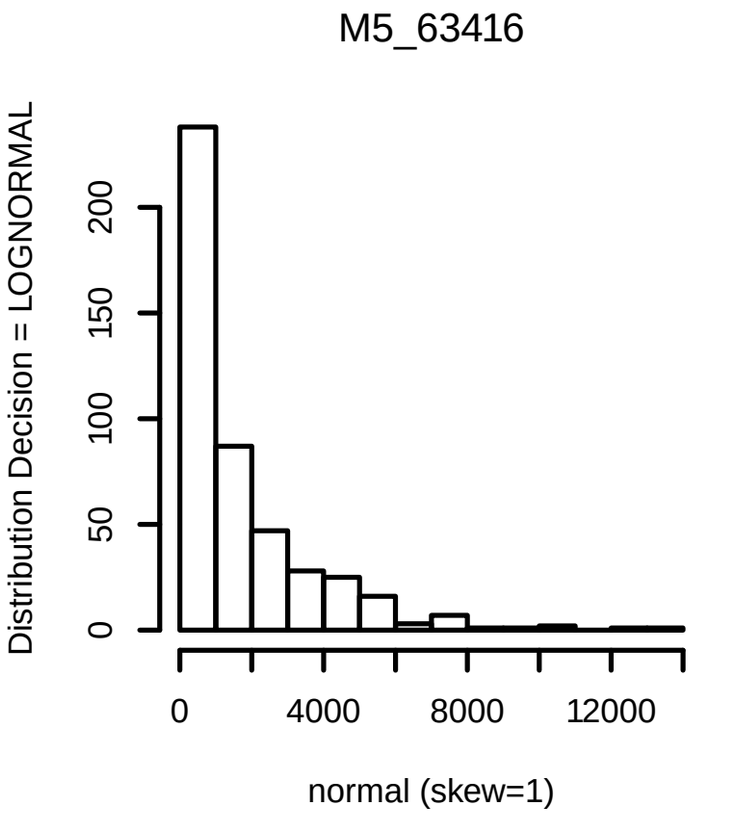

M5_81112
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
3
4
5
6
7
8
lognormal (skew=0.1)

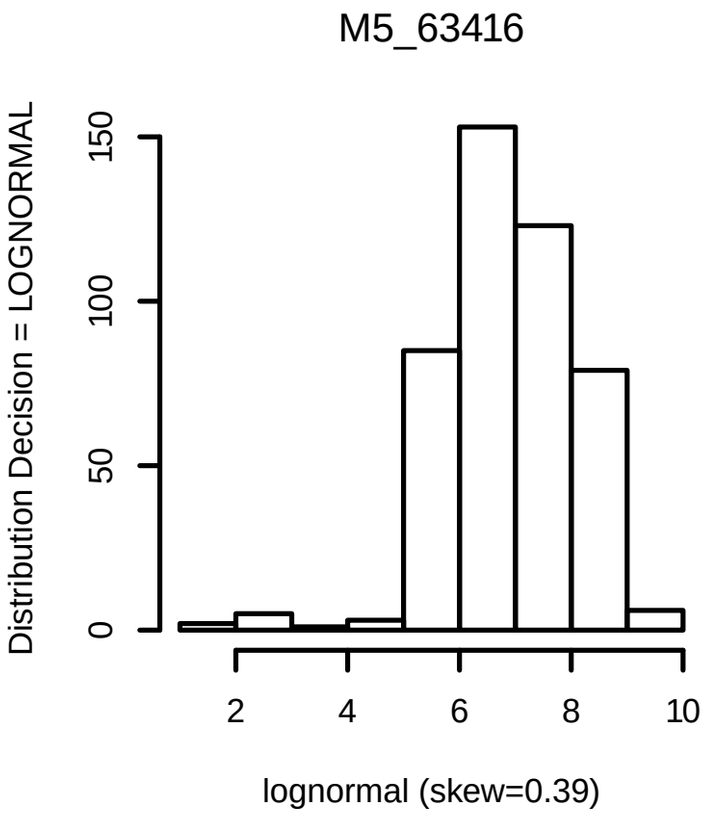

M5_26850
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.22)

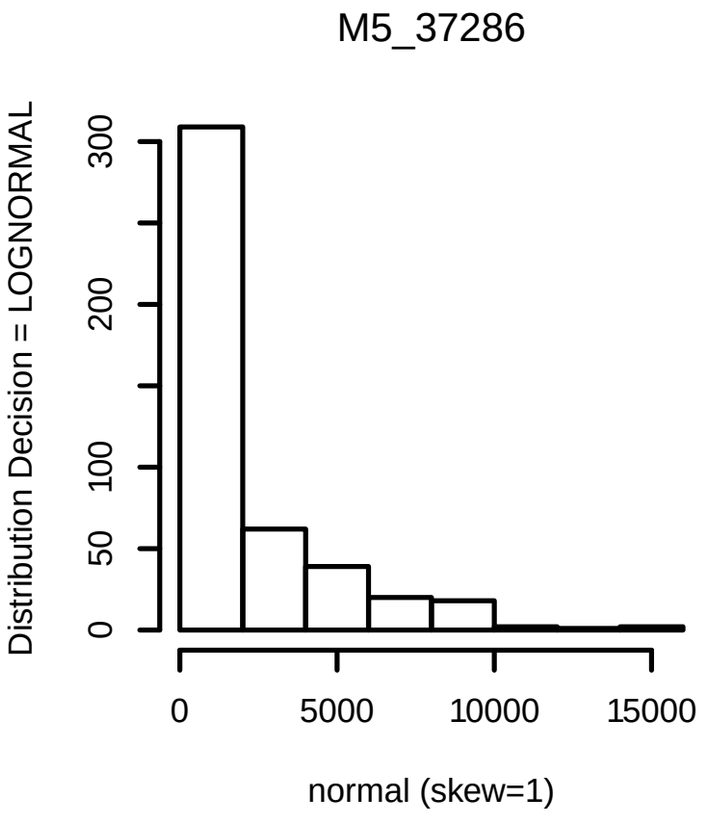

M5_26850
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.22)

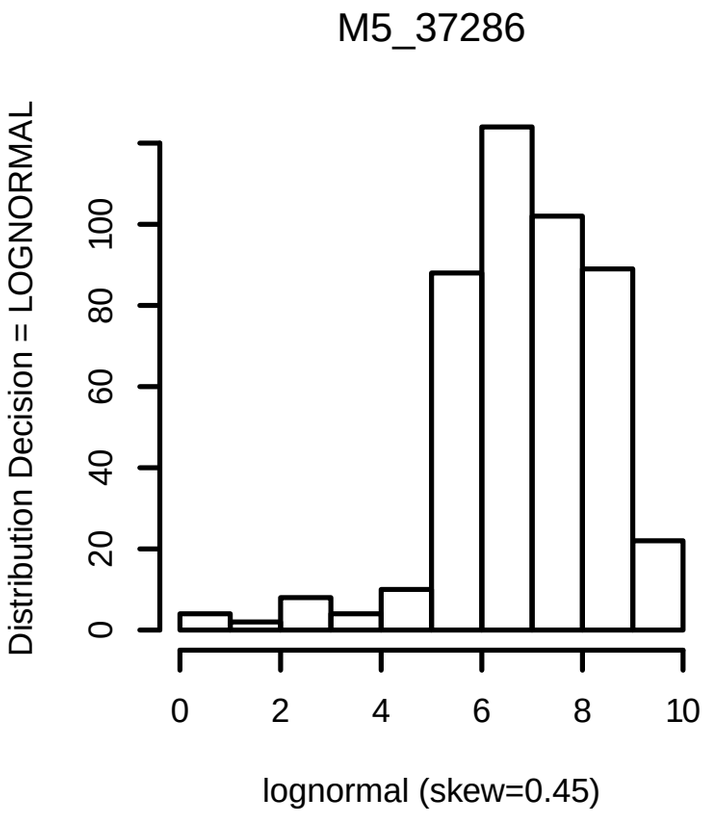

M5_10901
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
10000
20000
30000
40000
normal (skew=1)

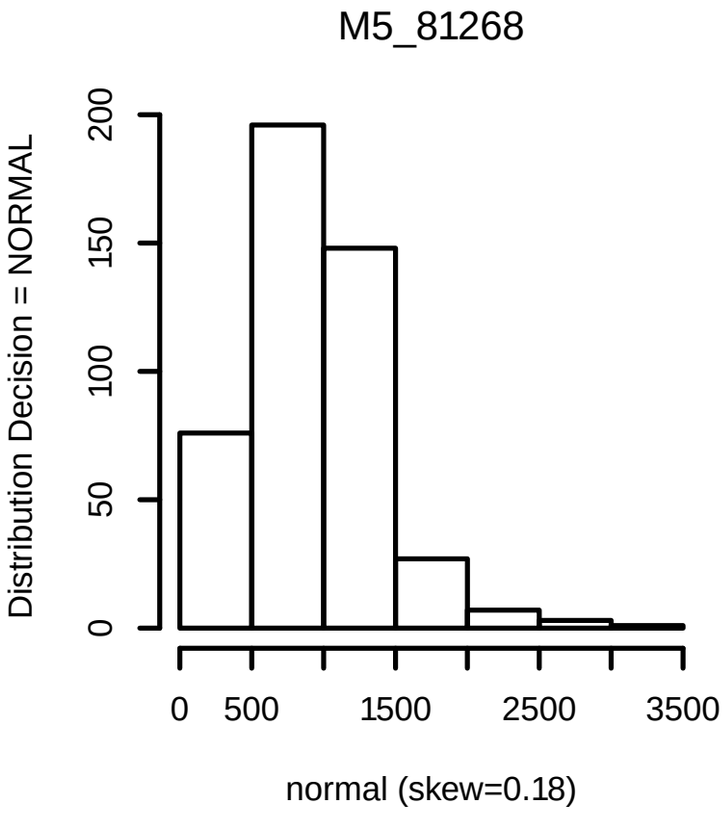

M5_10901
Distribution Decision = LOGNORMAL
0
50
100
150
200
4
6
8
10
lognormal (skew=0.59)

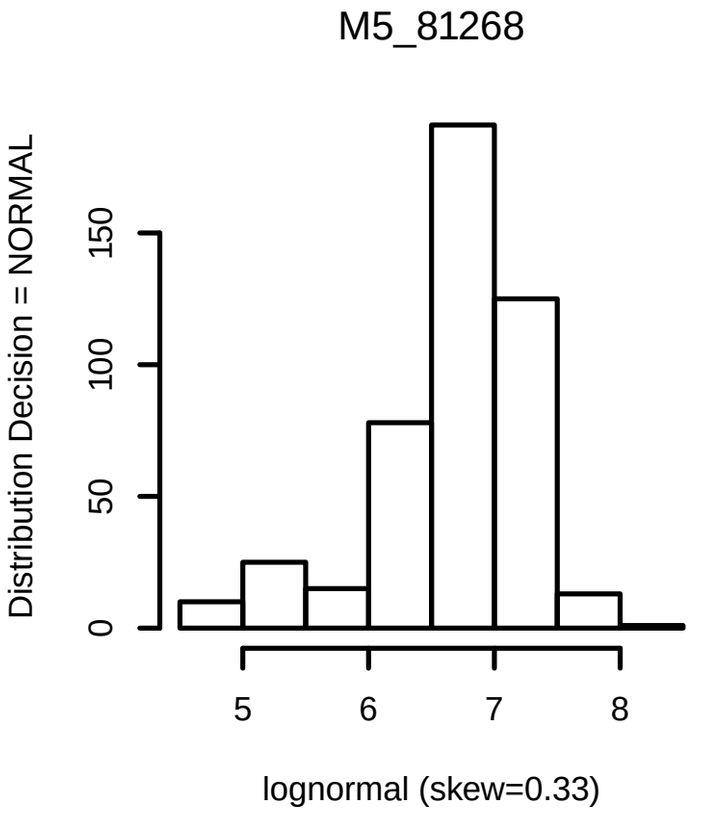

M5_63416
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
4000
8000
12000
normal (skew=1)

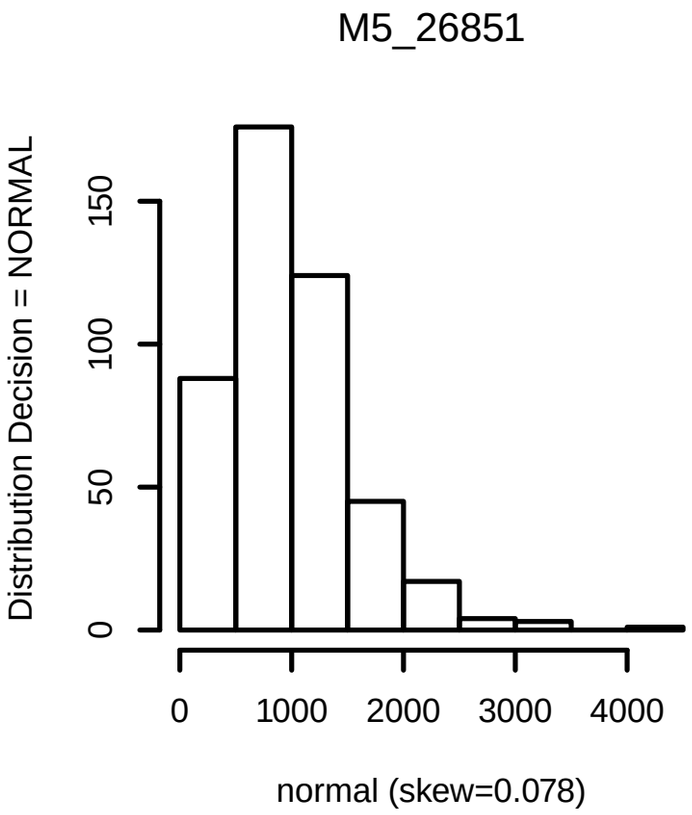

M5_63416
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=0.39)

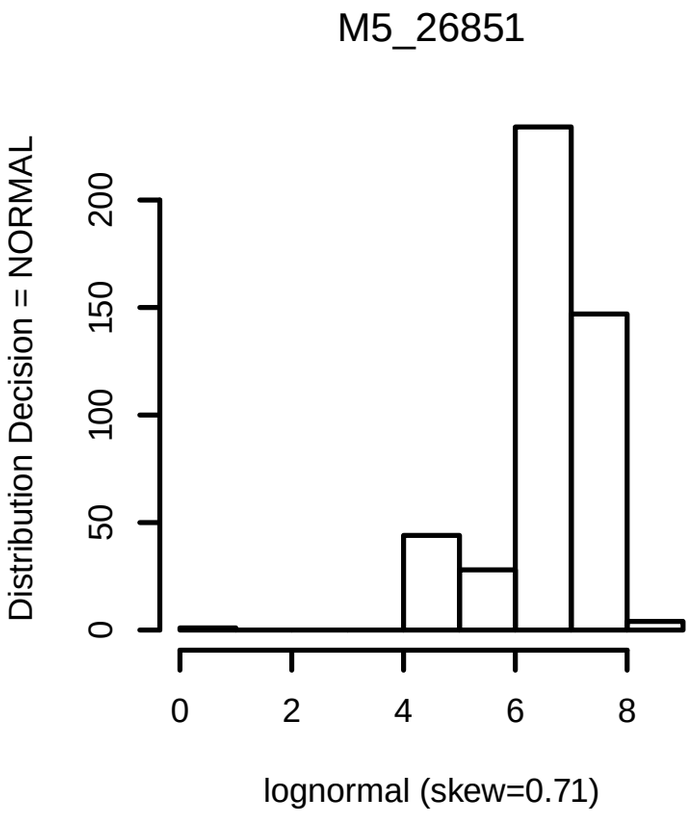

M5_37286
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
5000
10000
15000
normal (skew=1)

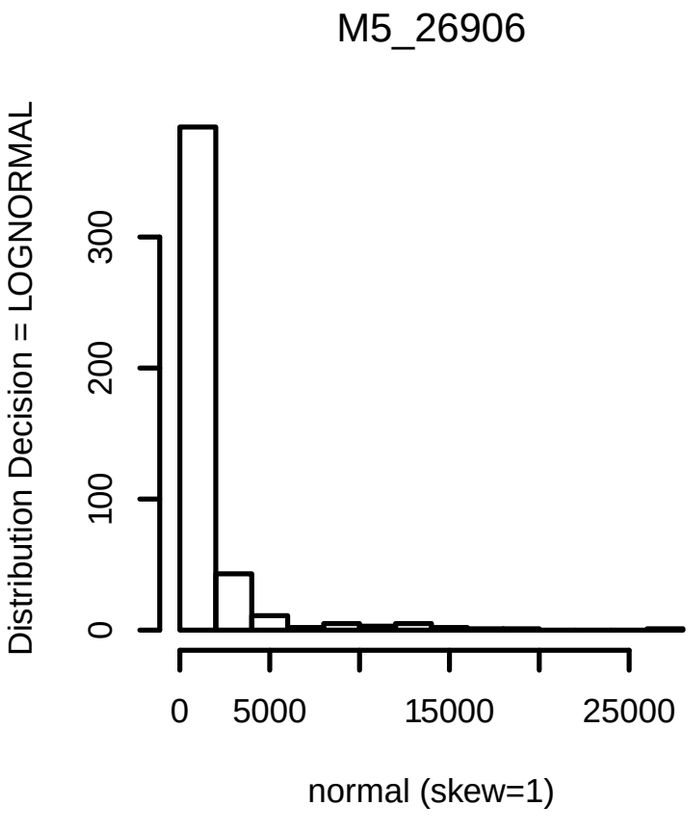

M5_37286
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2
4
6
8
10
lognormal (skew=0.45)

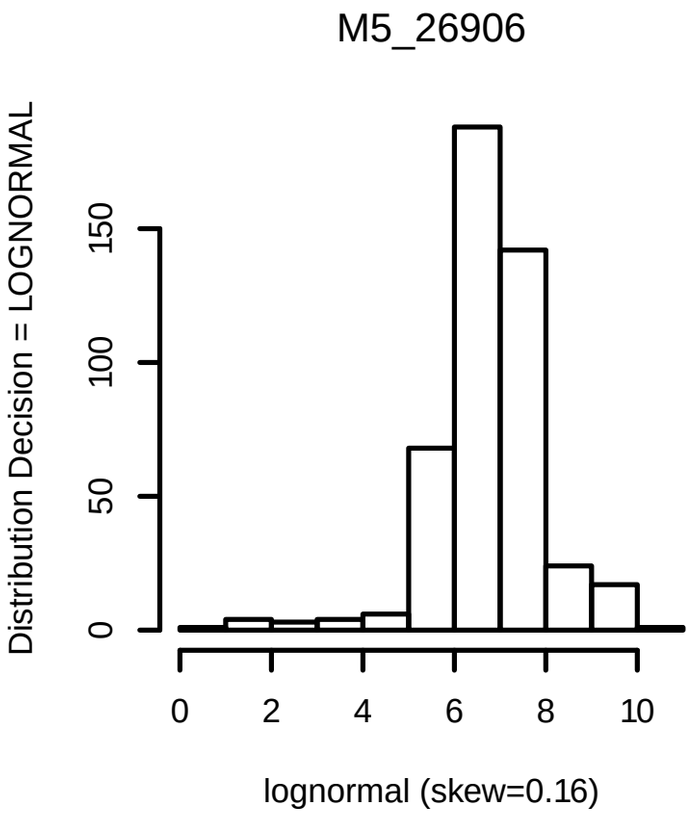

M5_81268
Distribution Decision = NORMAL
0
50
100
150
200
0
500
1500
2500
3500
normal (skew=0.18)

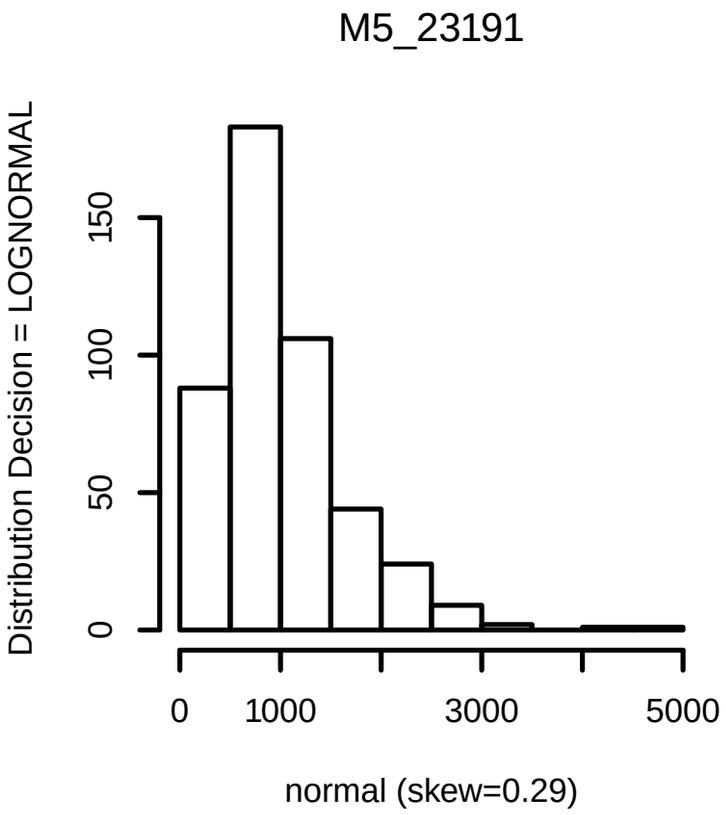

M5_81268
Distribution Decision = NORMAL
0
50
100
150
5
6
7
8
lognormal (skew=0.33)

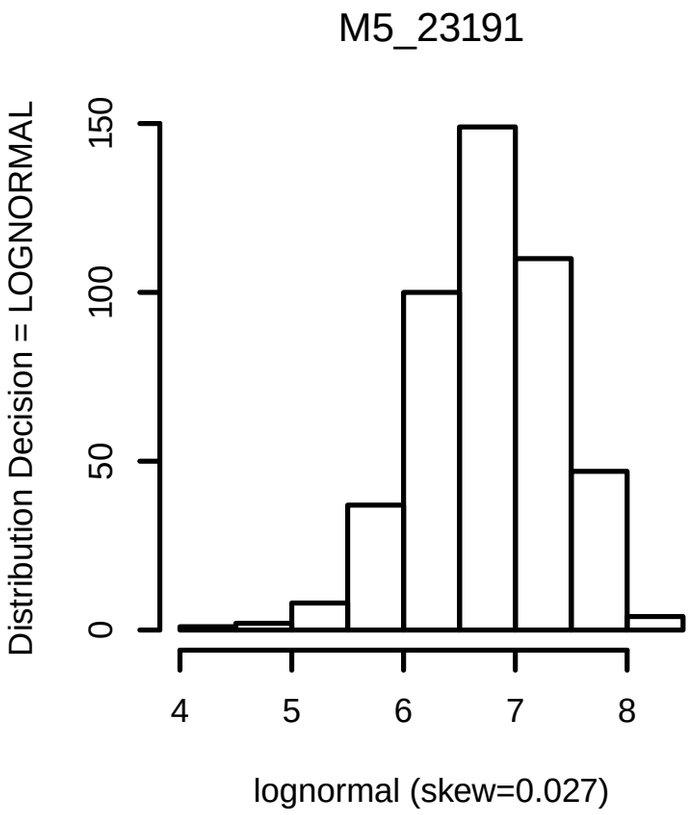

M5_26851
Distribution Decision = NORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.078)

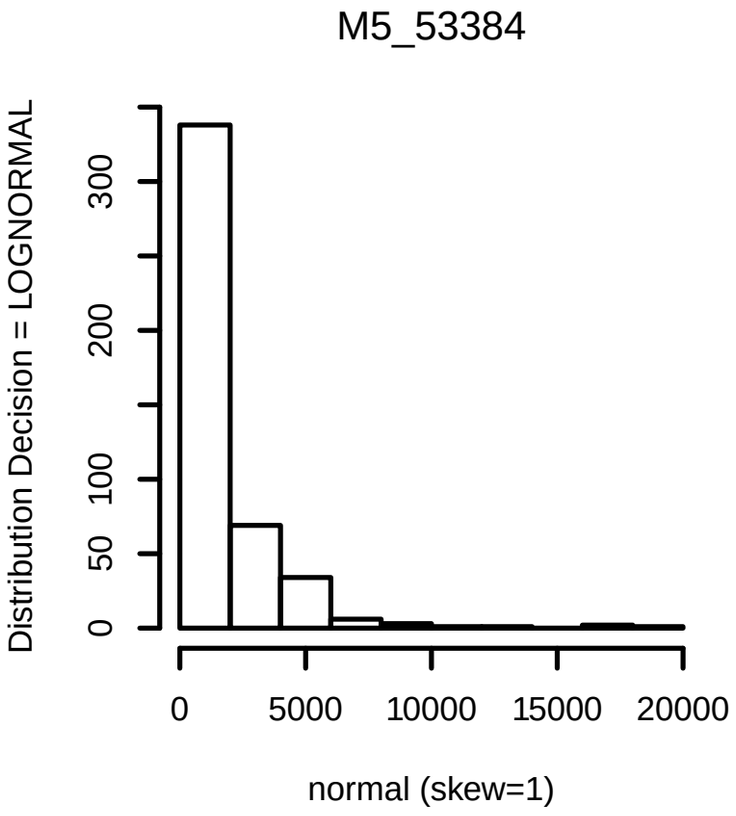

M5_26851
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.71)

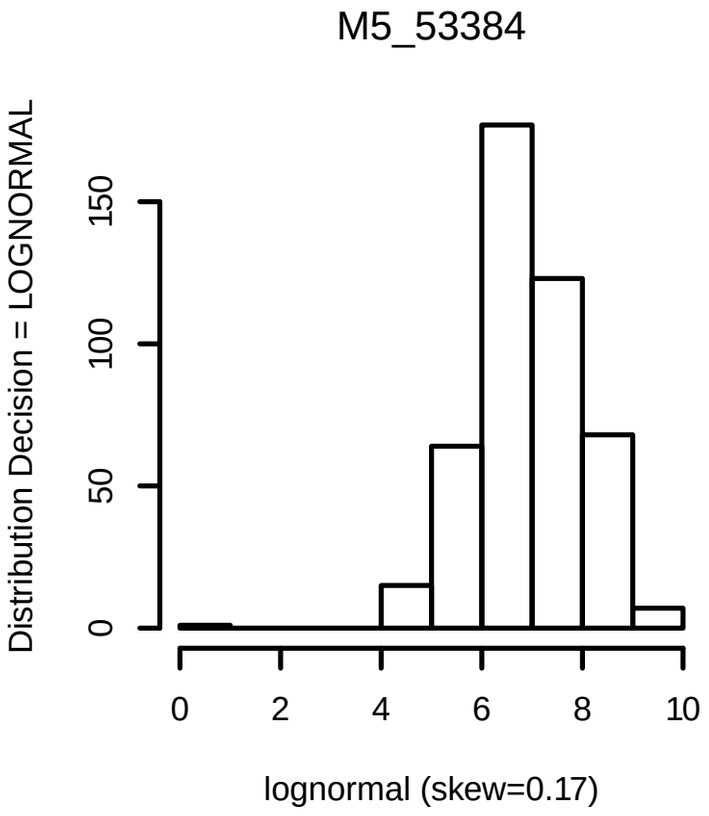

M5_26906
Distribution Decision = LOGNORMAL
0
100
200
300
0
5000
15000
25000
normal (skew=1)

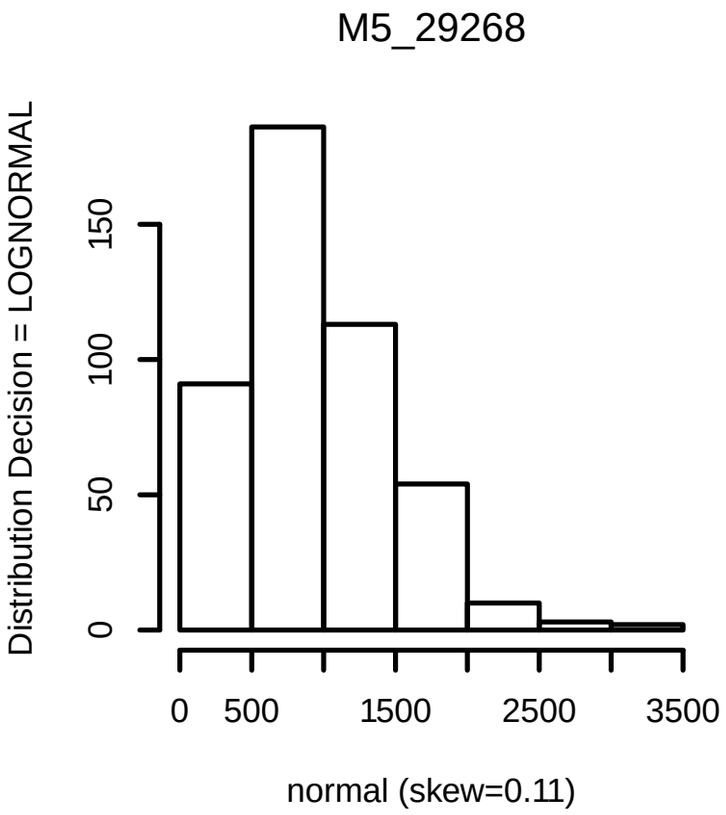

M5_26906
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
lognormal (skew=0.16)

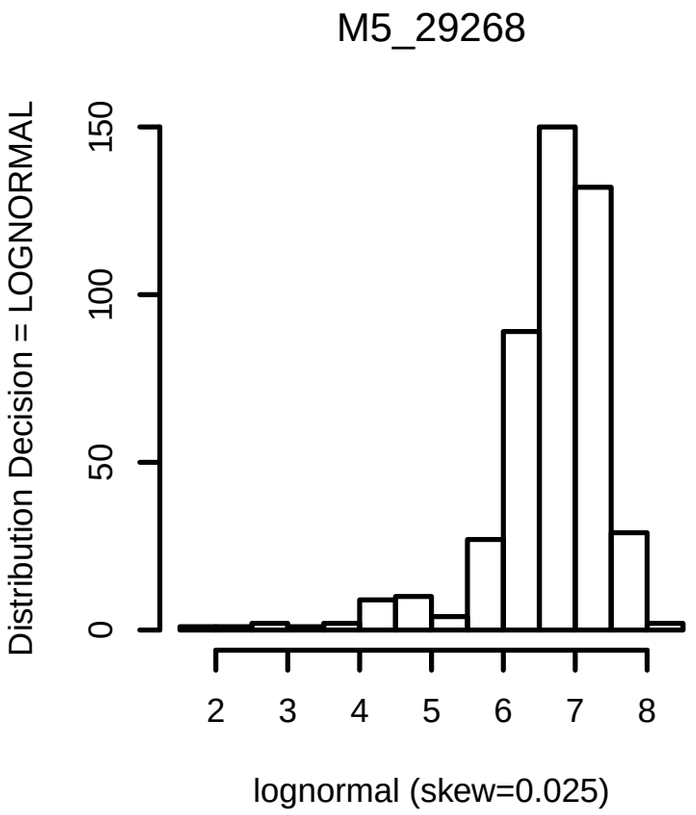

M5_23191
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
3000
5000
normal (skew=0.29)

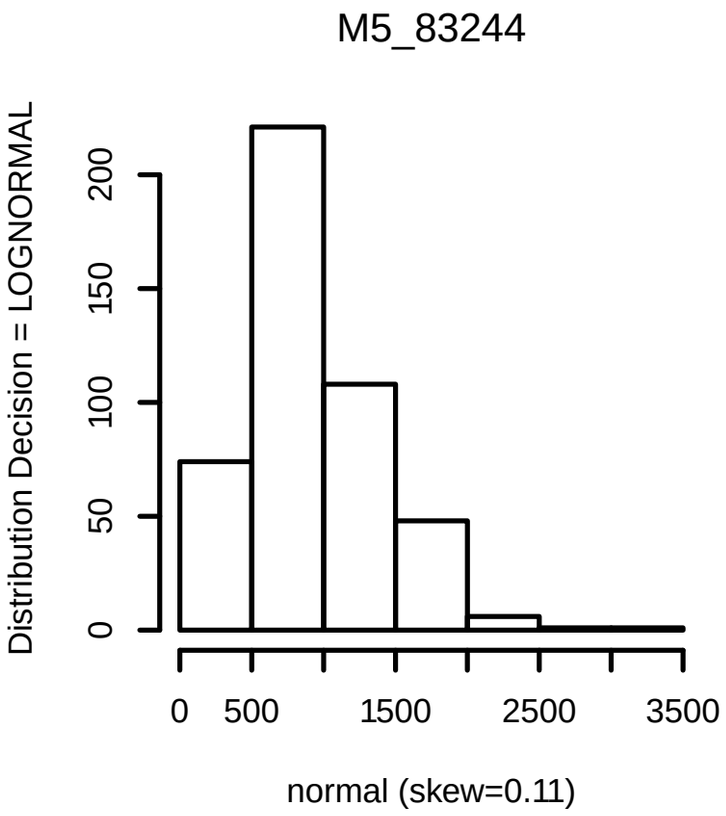

M5_23191
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.027)

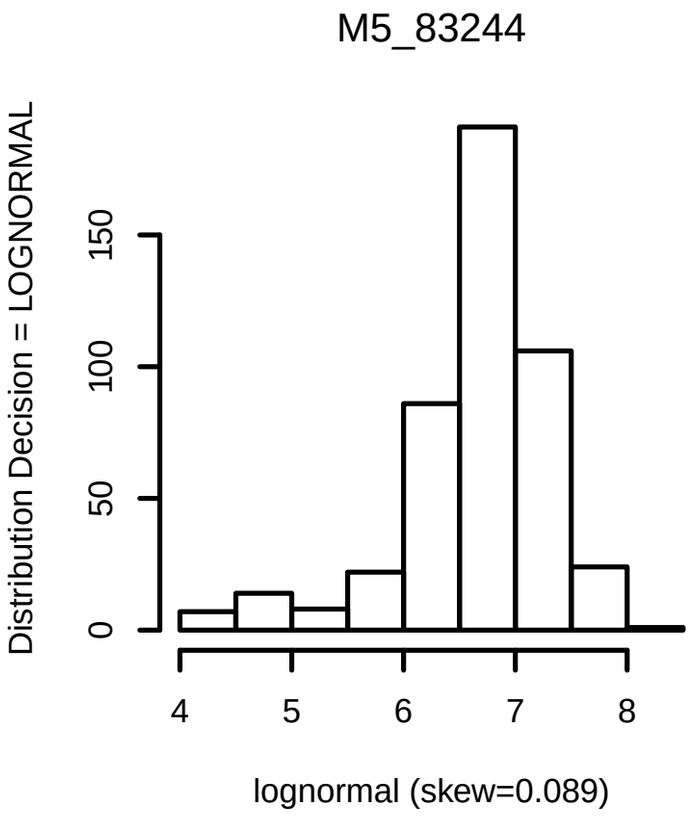

M5_53384
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
5000
10000
15000
20000
normal (skew=1)

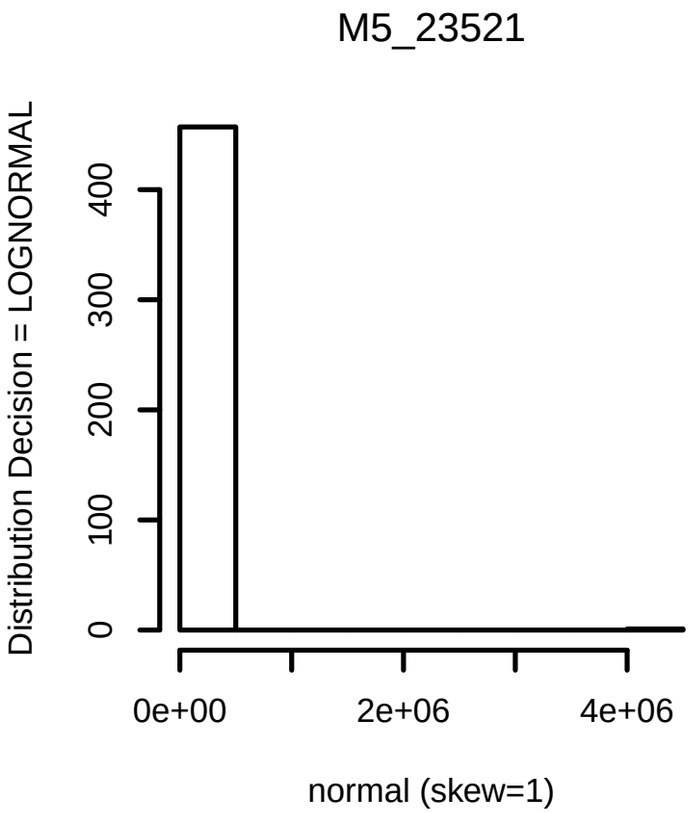

M5_53384
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
lognormal (skew=0.17)

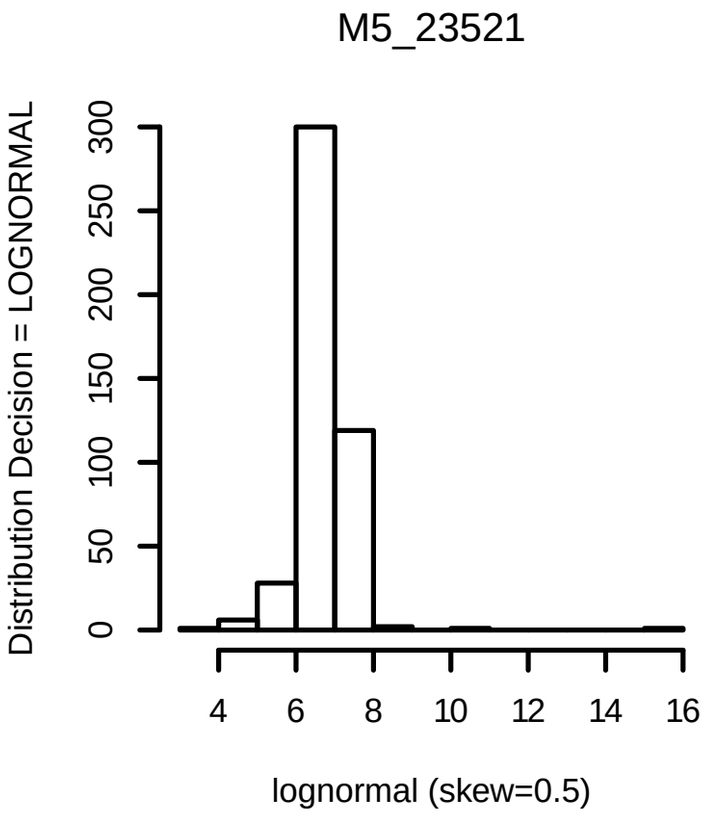

M5_29268
Distribution Decision = LOGNORMAL
0
50
100
150
0
500
1500
2500
3500
normal (skew=0.11)

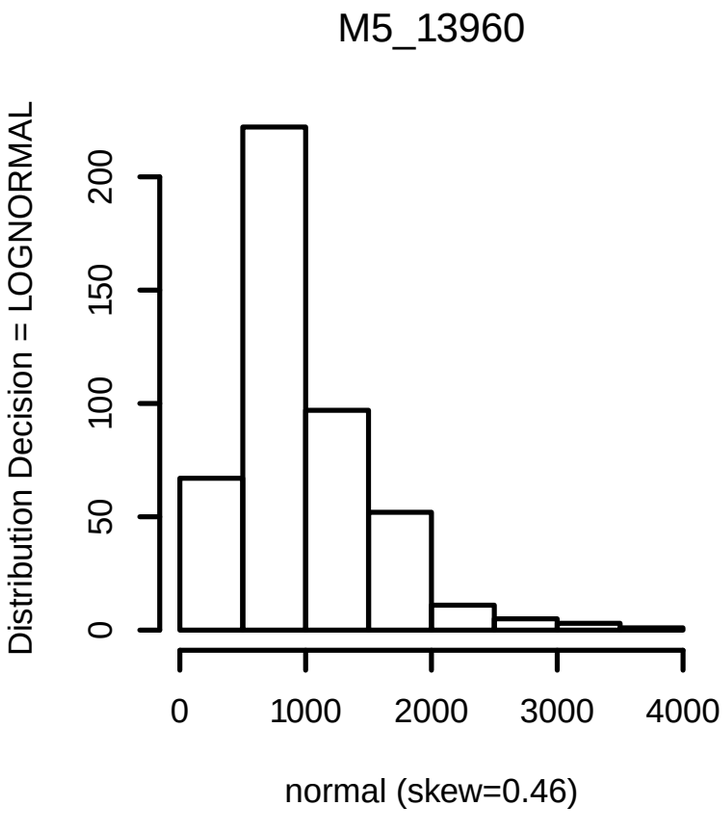

M5_29268
Distribution Decision = LOGNORMAL
0
50
100
150
2
3
4
5
6
7
8
lognormal (skew=0.025)

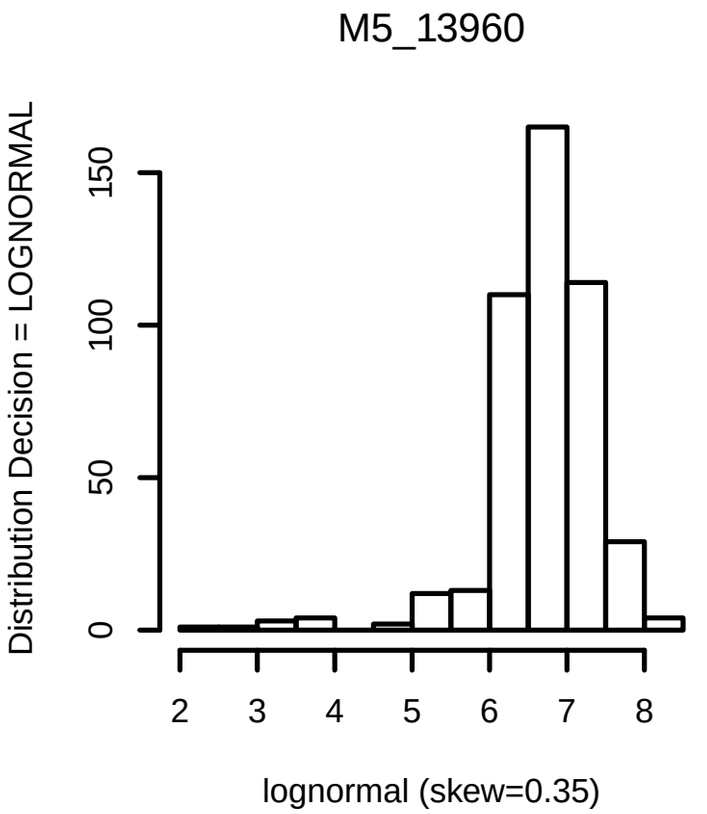

M5_83244
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1500
2500
3500
normal (skew=0.11)

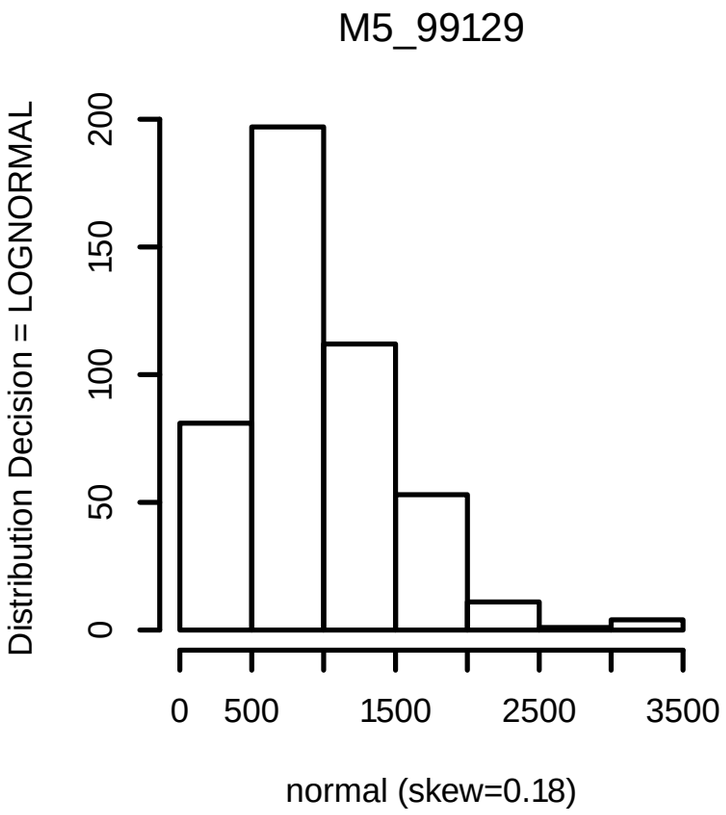

M5_83244
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.089)

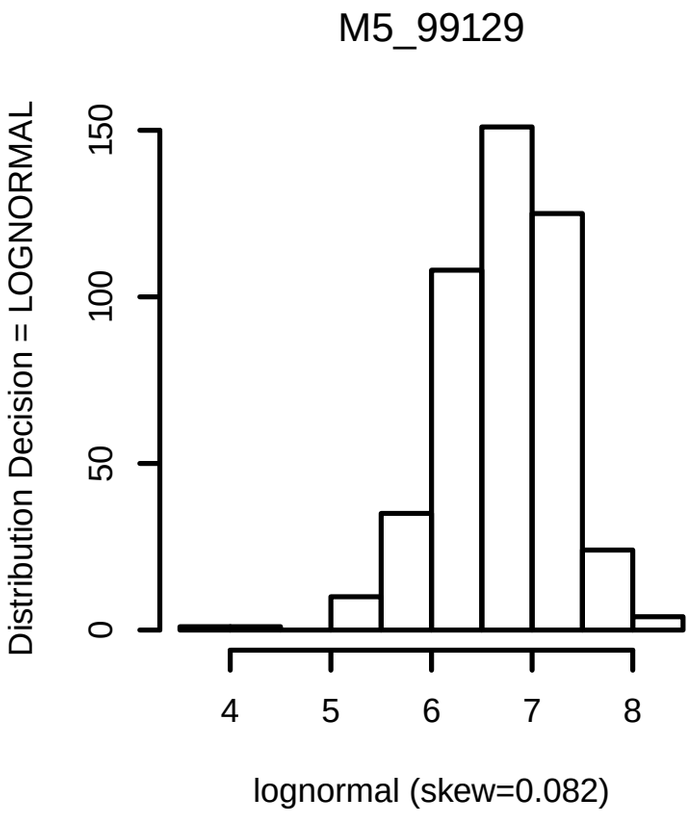

M5_23521
Distribution Decision = LOGNORMAL
0
100
200
300
400
0e+00
2e+06
4e+06
normal (skew=1)

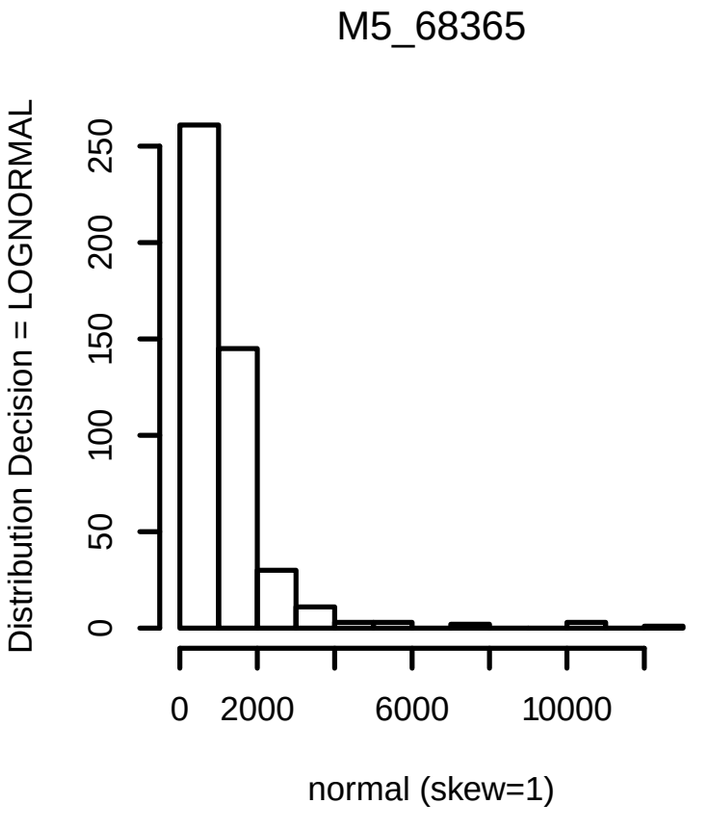

M5_23521
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
4
6
8
10
12
14
16
lognormal (skew=0.5)

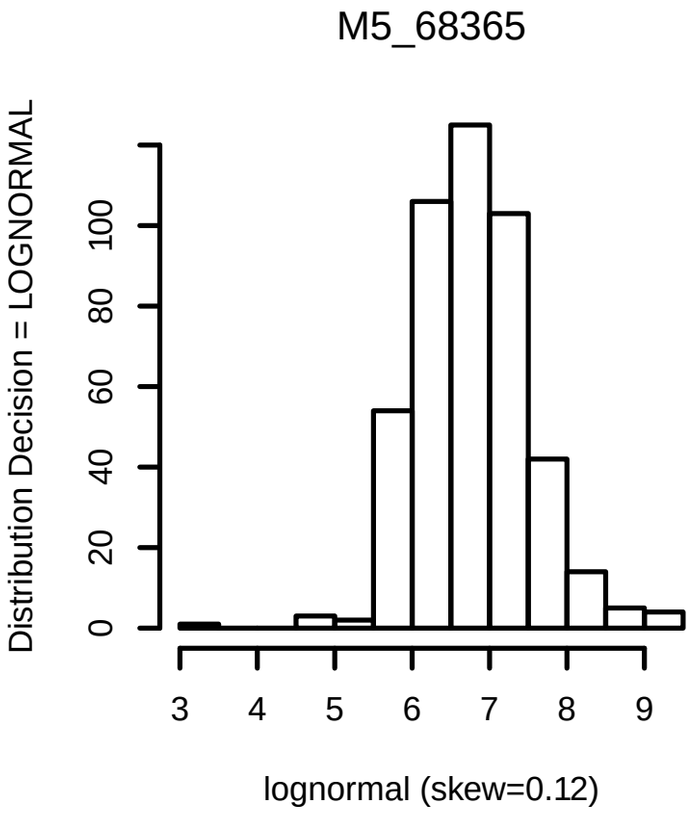

M5_13960
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.46)

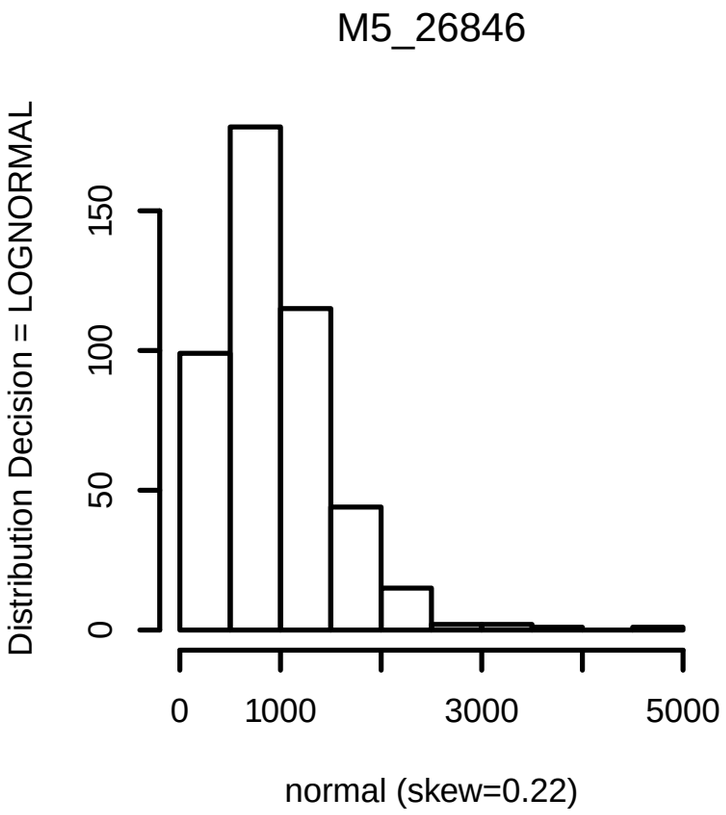

M5_13960
Distribution Decision = LOGNORMAL
0
50
100
150
2
3
4
5
6
7
8
lognormal (skew=0.35)

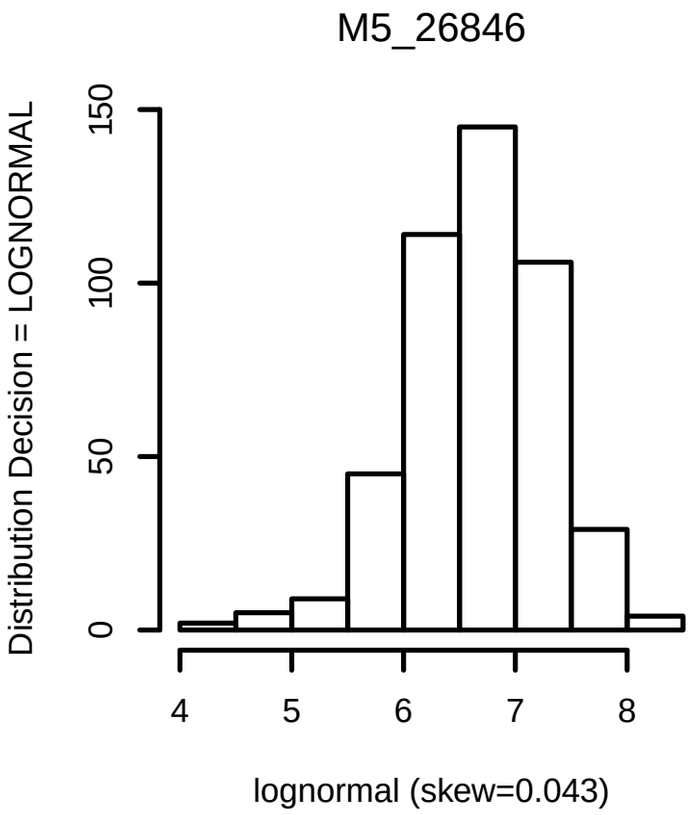

M5_99129
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1500
2500
3500
normal (skew=0.18)

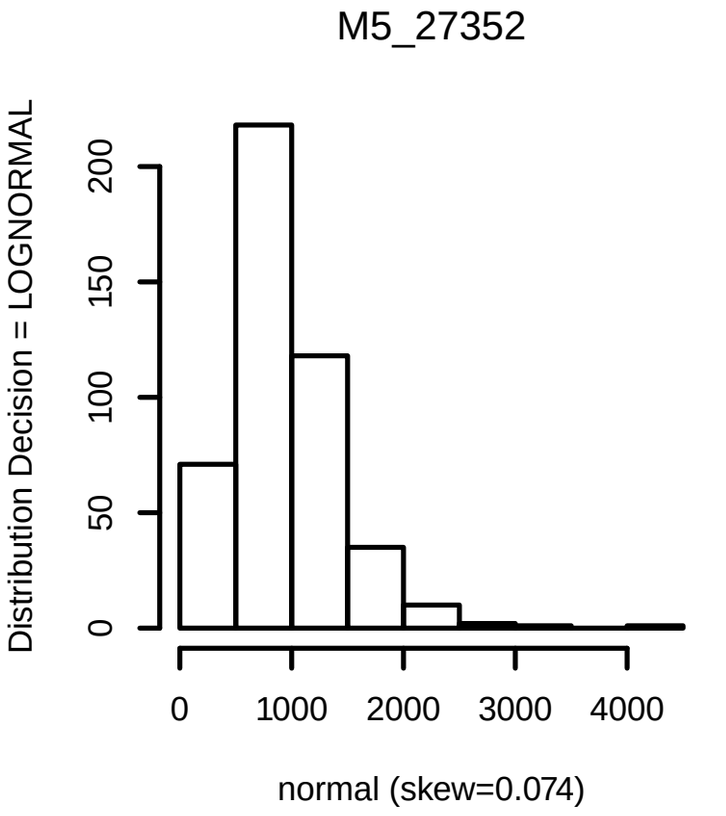

M5_99129
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.082)

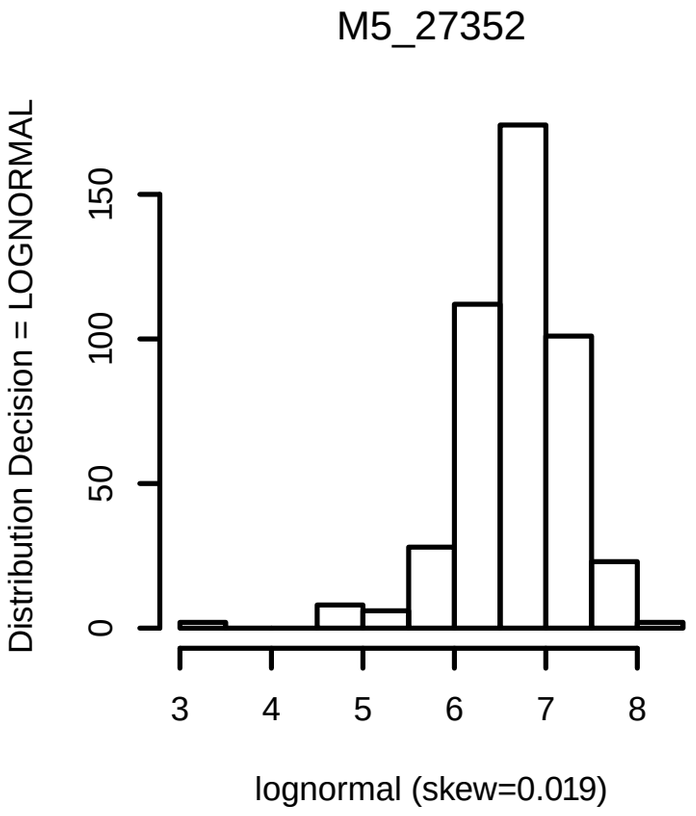

M5_68365
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2000
6000
10000
normal (skew=1)

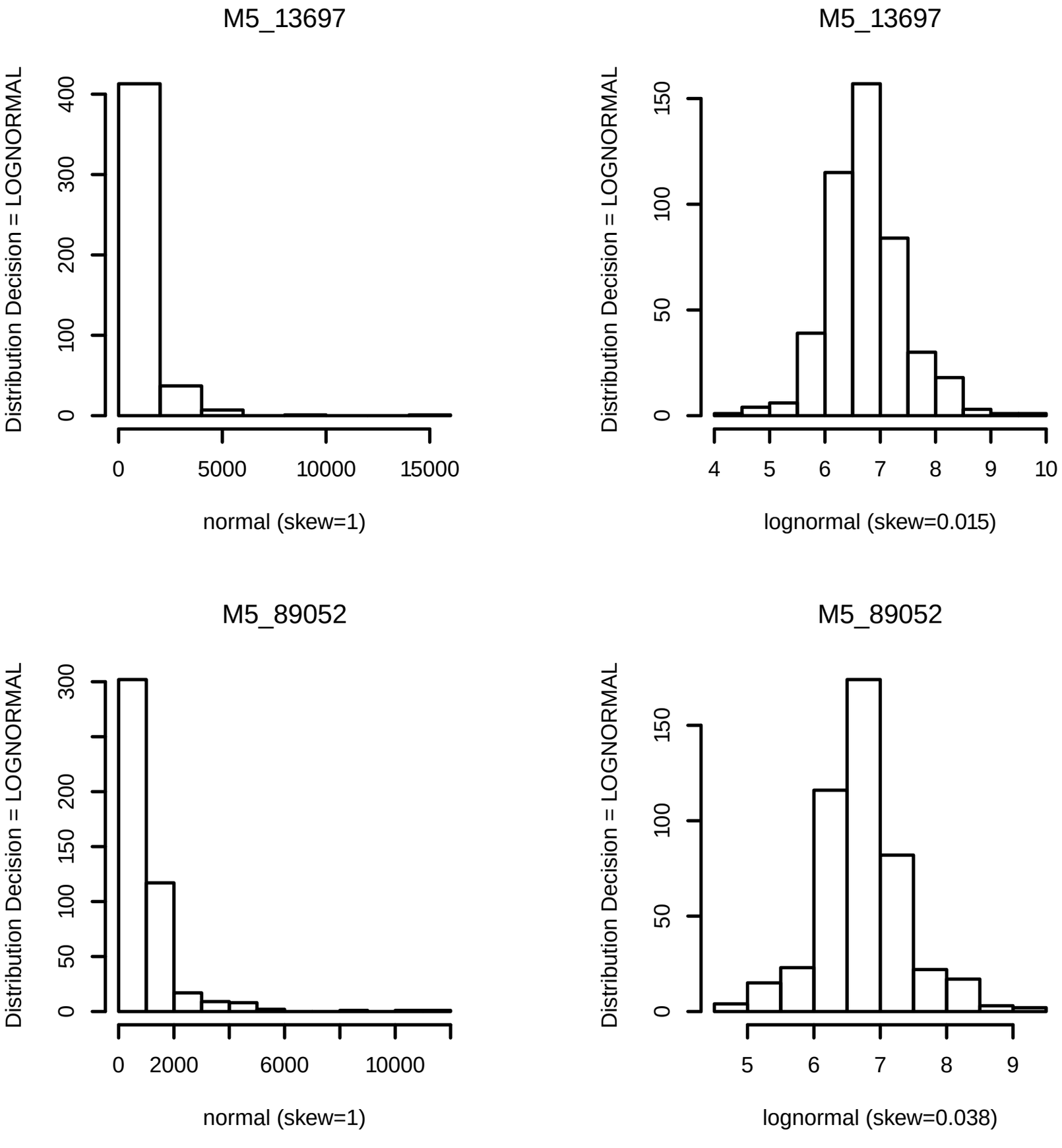

M5_68365
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
3
4
5
6
7
8
9
lognormal (skew=0.12)

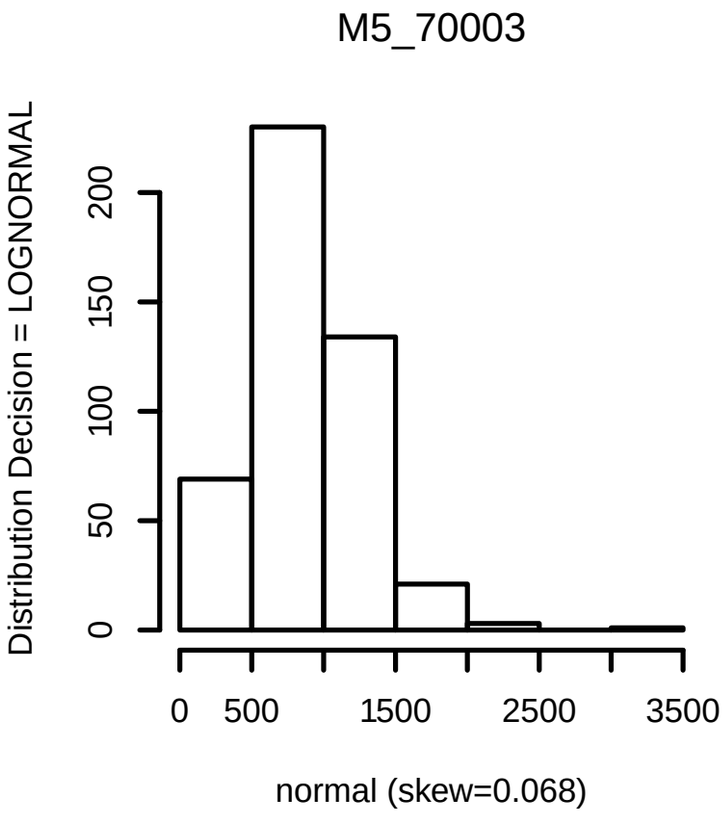

M5_26846
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
3000
5000
normal (skew=0.22)

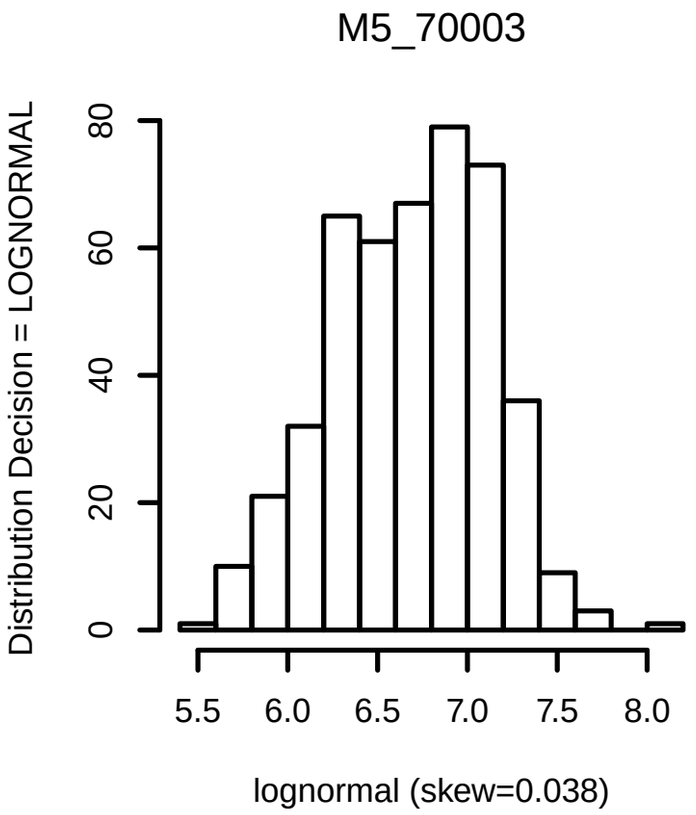

M5_26846
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.043)

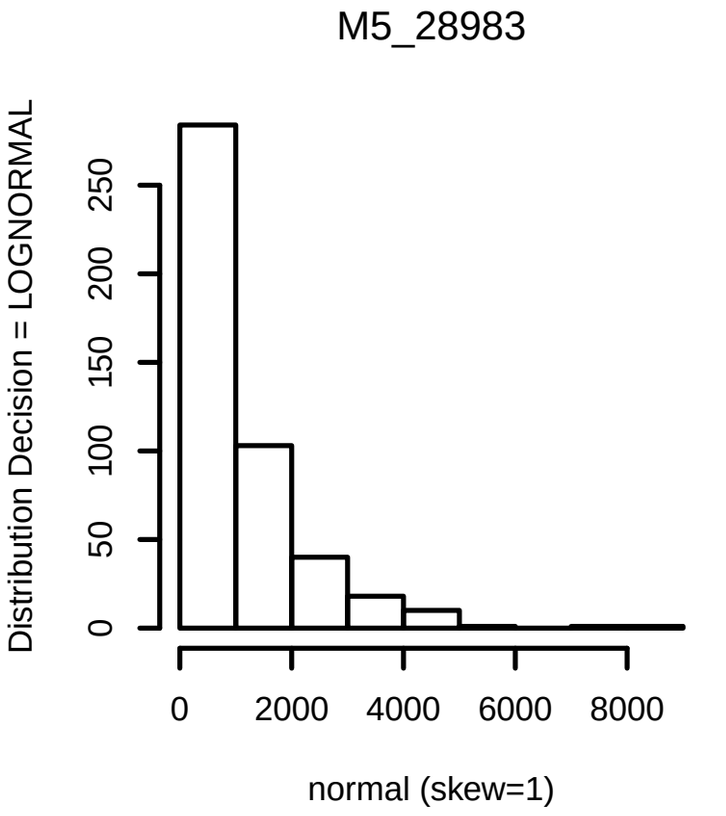

M5_27352
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.074)

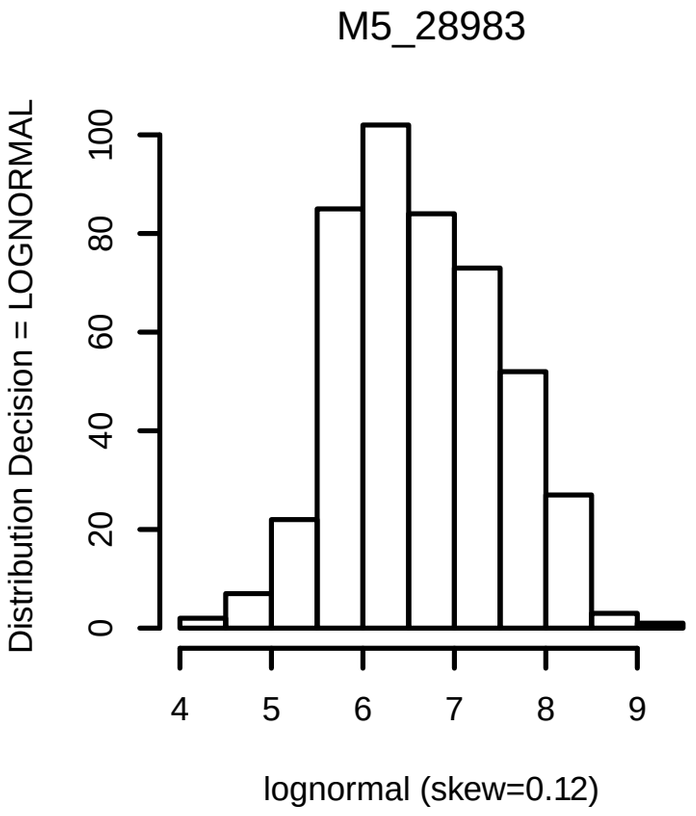

M5_27352
Distribution Decision = LOGNORMAL
0
50
100
150
3
4
5
6
7
8
lognormal (skew=0.019)

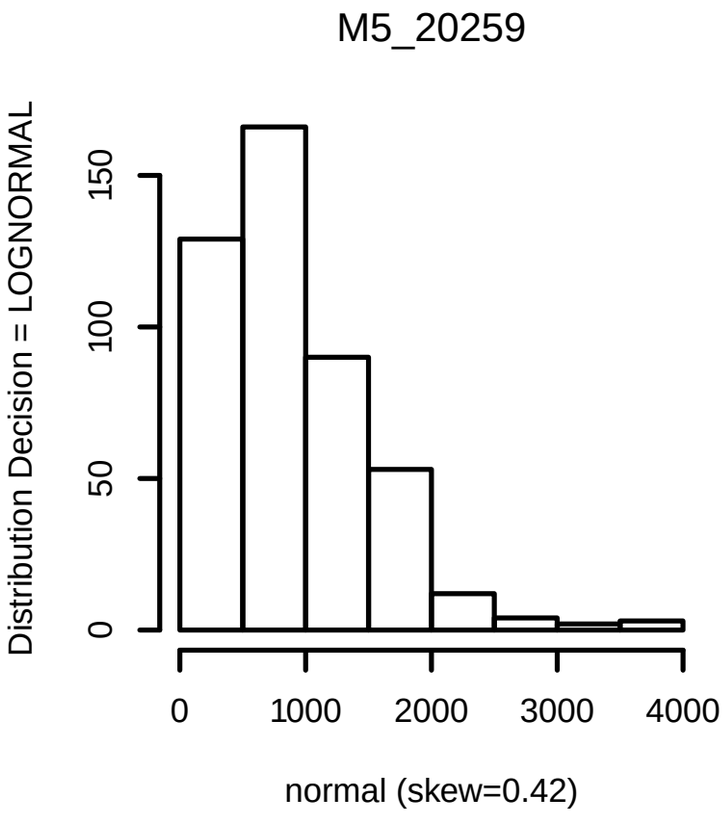

M5_13697
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
15000
normal (skew=1)
M5_13697
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
9
10
lognormal (skew=0.015)
M5_89052
Distribution Decision = LOGNORMAL
0
50
100
150
200
300
0
2000
6000
10000
normal (skew=1)
M5_89052
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
lognormal (skew=0.038)

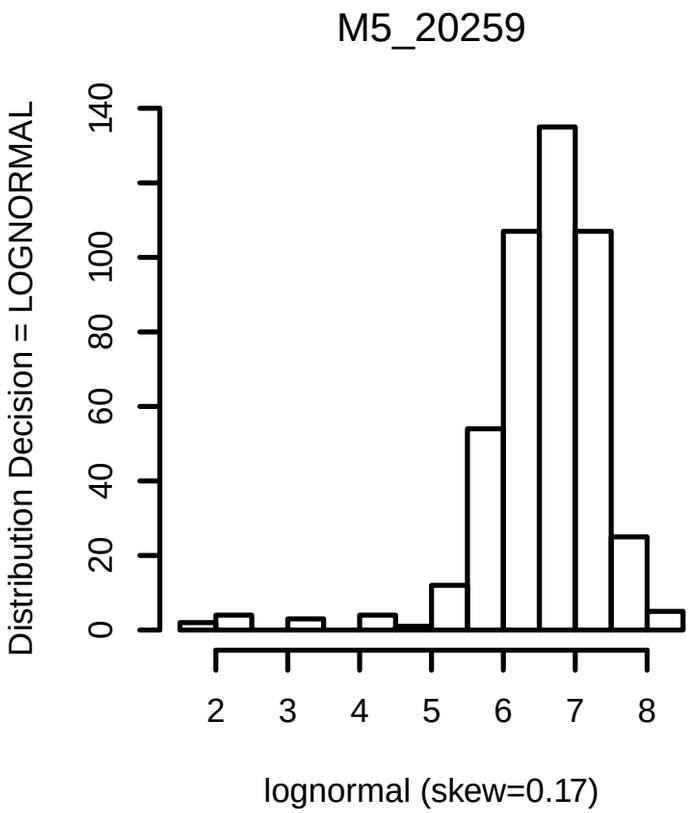

M5_70003
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1500
2500
3500
normal (skew=0.068)

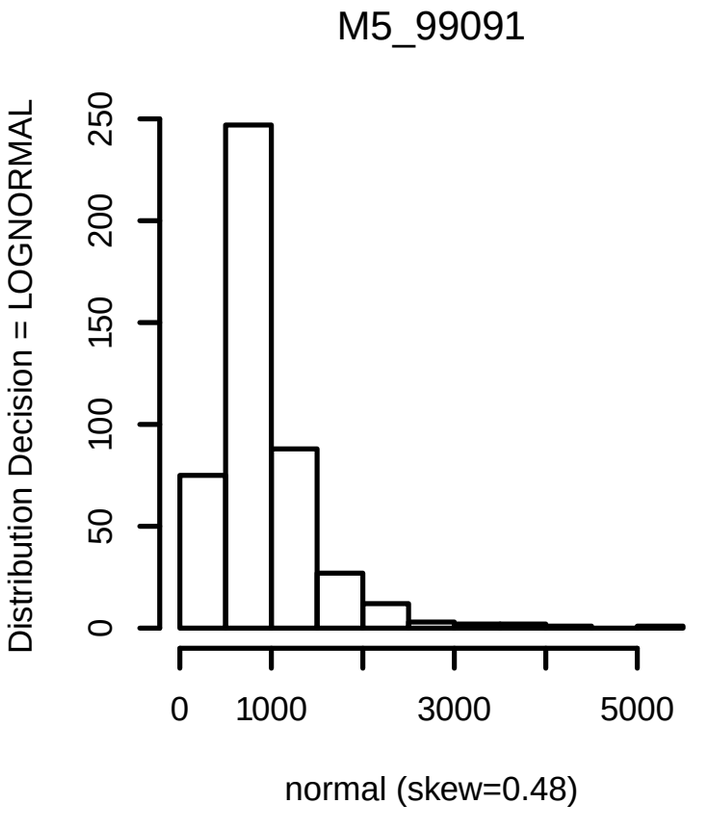

M5_70003
Distribution Decision = LOGNORMAL
0
20
40
60
80
5.5
6.0
6.5
7.0
7.5
8.0
lognormal (skew=0.038)

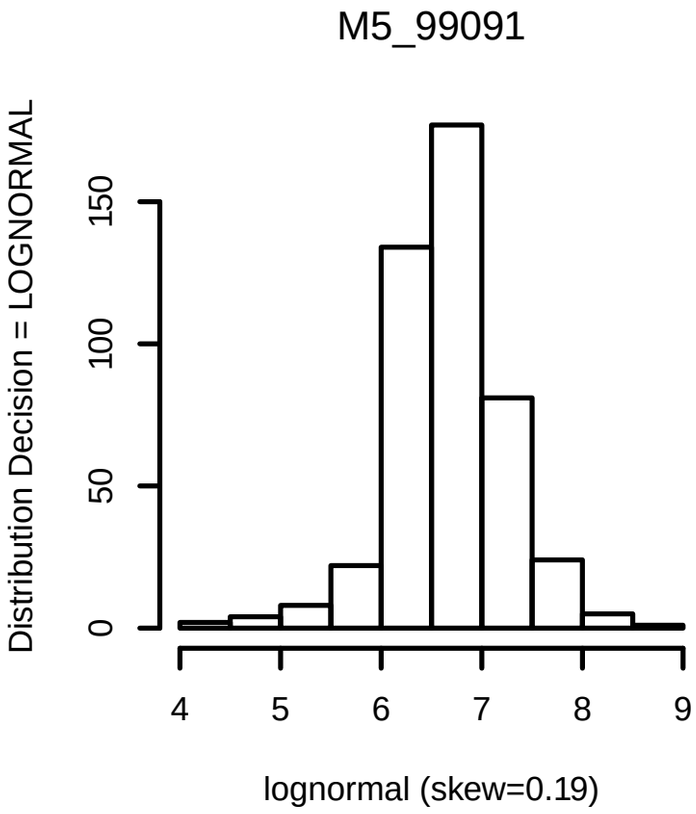

M5_28983
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2000
4000
6000
8000
normal (skew=1)

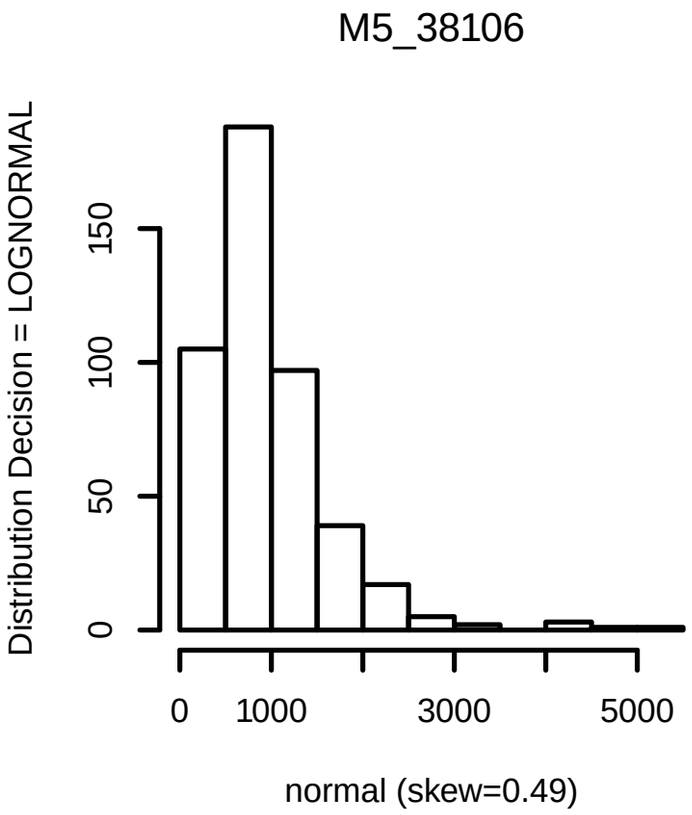

M5_28983
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
9
lognormal (skew=0.12)

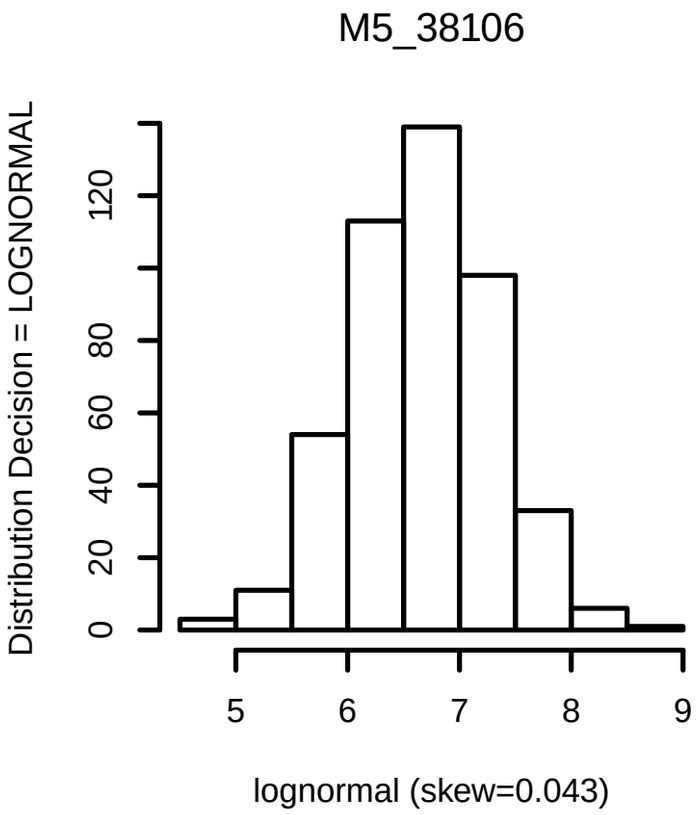

M5_20259
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.42)

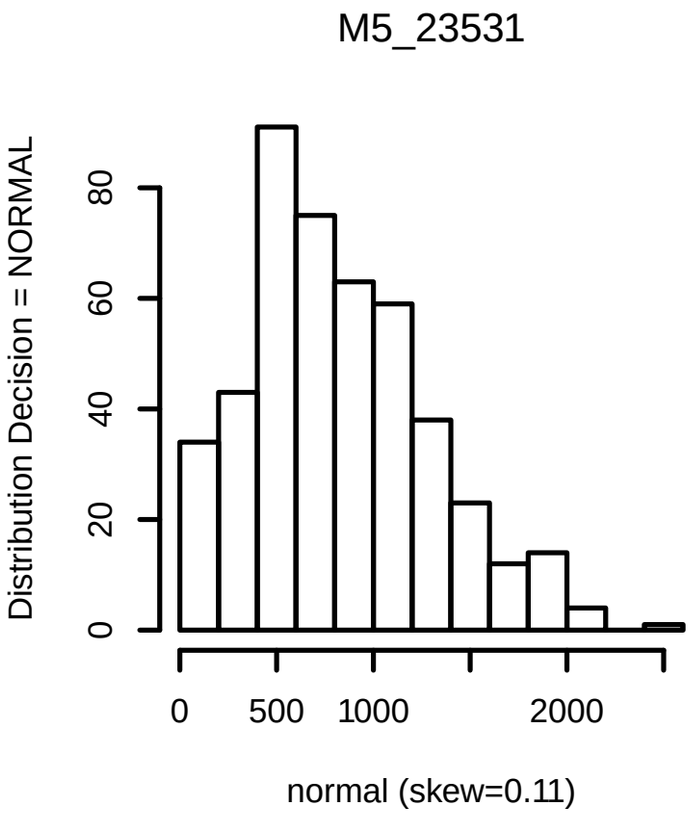

M5_20259
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
2
3
4
5
6
7
8
lognormal (skew=0.17)

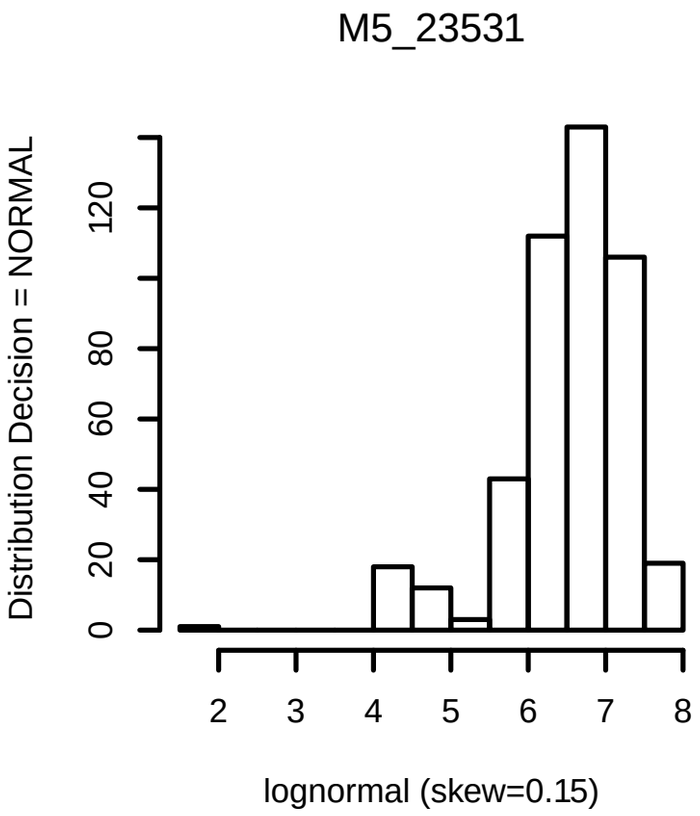

M5_99091
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
3000
5000
normal (skew=0.48)

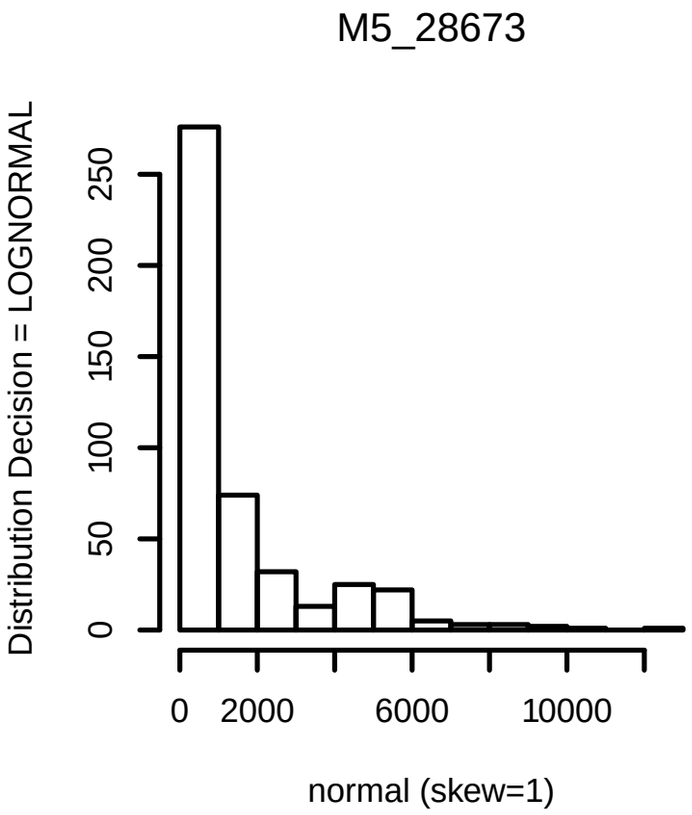

M5_99091
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
9
lognormal (skew=0.19)

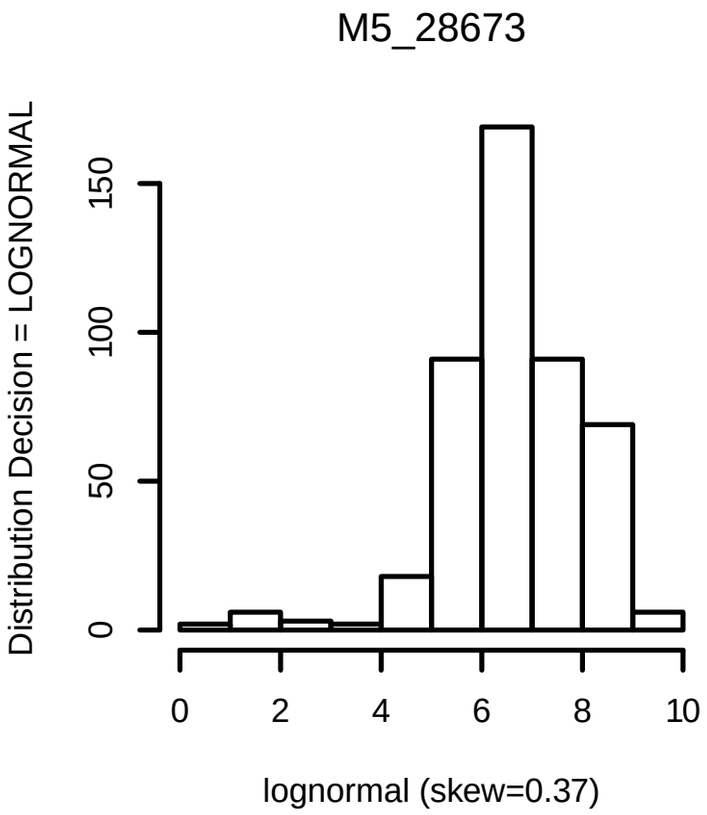

M5_38106
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
3000
5000
normal (skew=0.49)

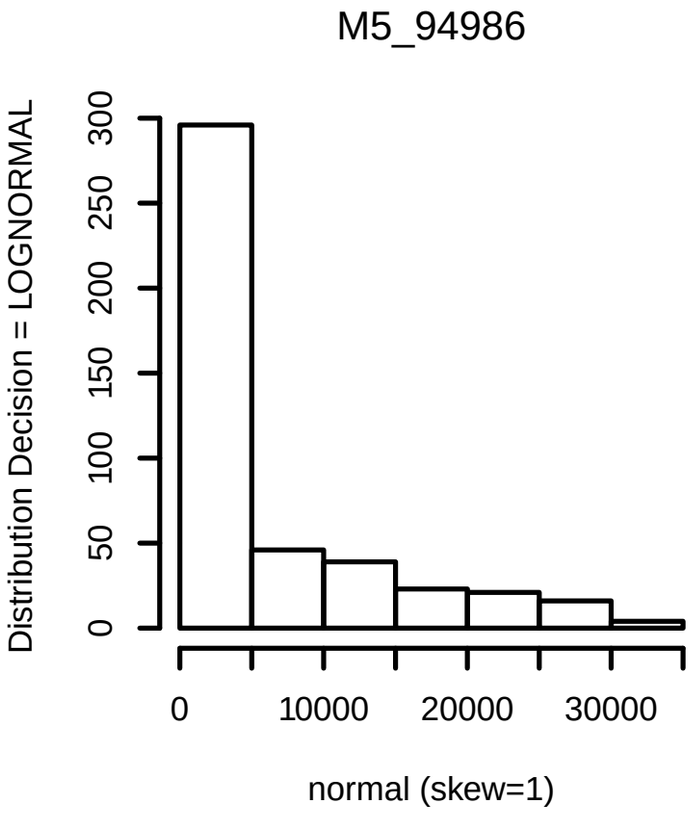

M5_38106
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
5
6
7
8
9
lognormal (skew=0.043)

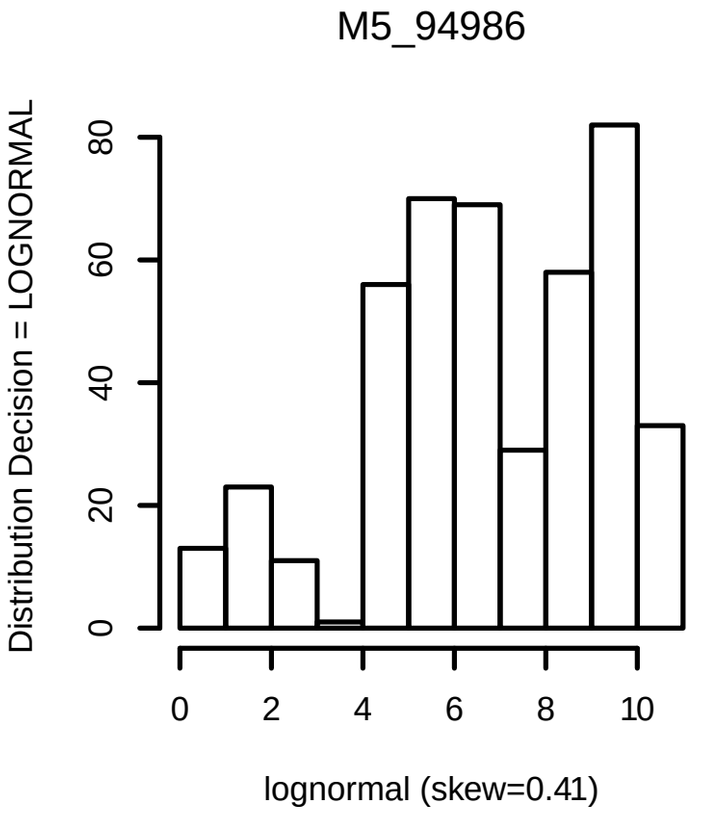

M5_23531
Distribution Decision = NORMAL
0
20
40
60
80
0
500
1000
2000
normal (skew=0.11)

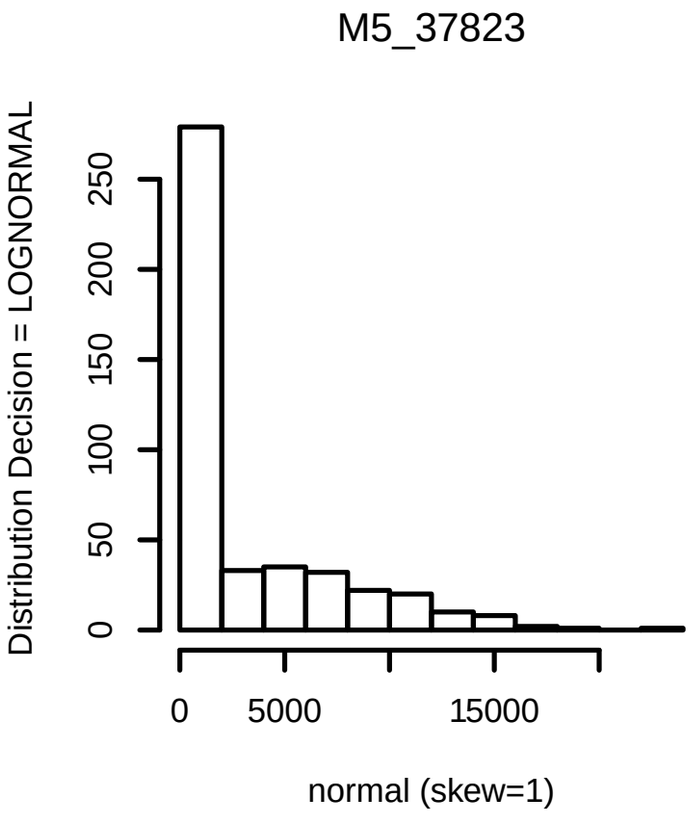

M5_23531
Distribution Decision = NORMAL
0
20
40
60
80
120
2
3
4
5
6
7
8
lognormal (skew=0.15)

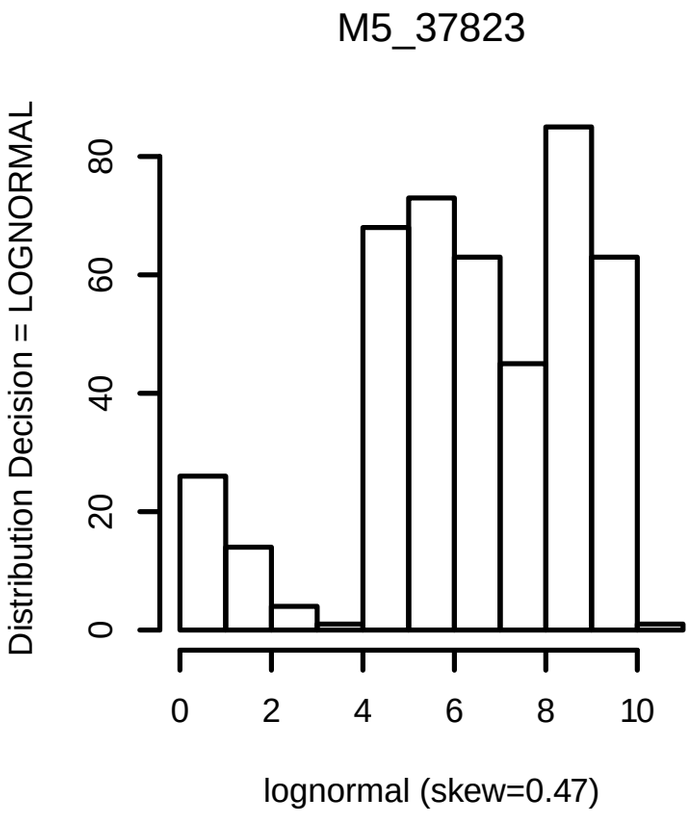

M5_28673
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2000
6000
10000
normal (skew=1)

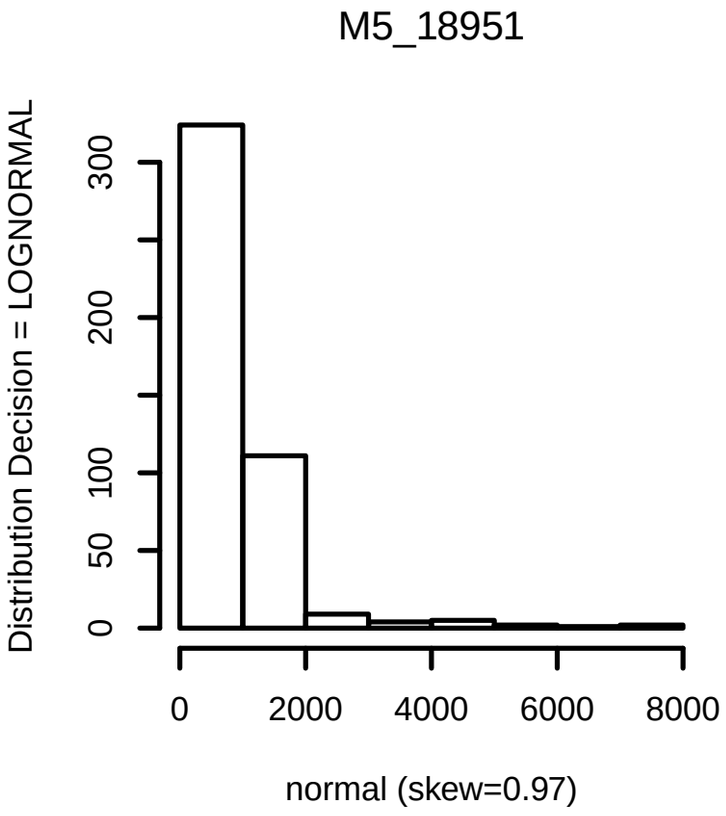

M5_28673
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
lognormal (skew=0.37)

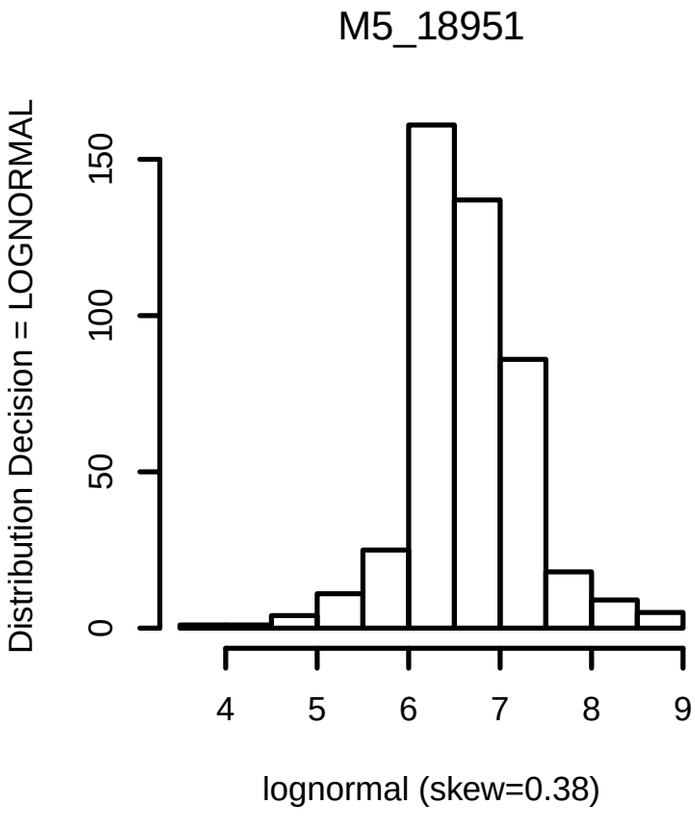

M5_94986
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
10000
20000
30000
normal (skew=1)

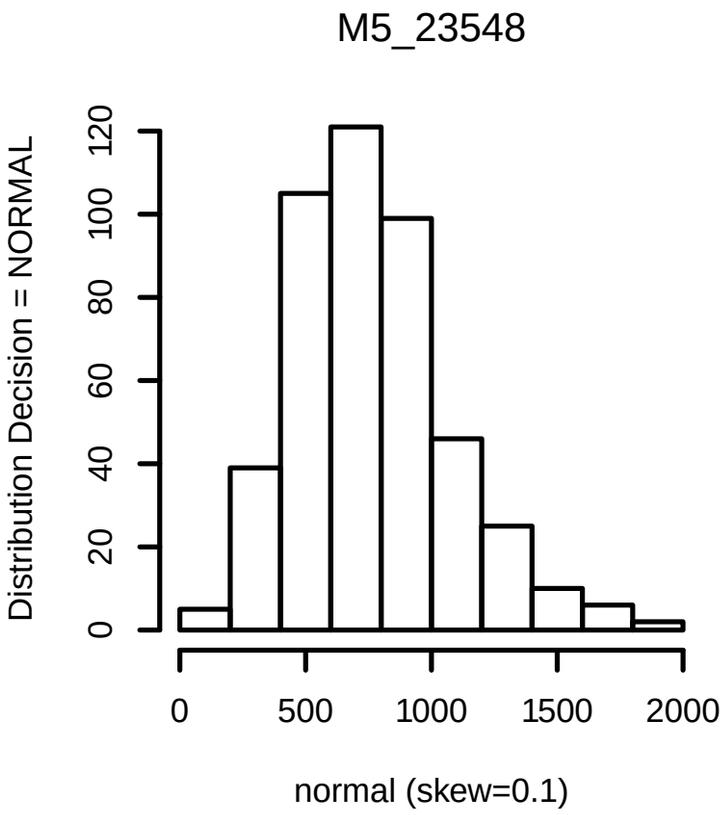

M5_94986
Distribution Decision = LOGNORMAL
0
20
40
60
80
0
2
4
6
8
10
lognormal (skew=0.41)

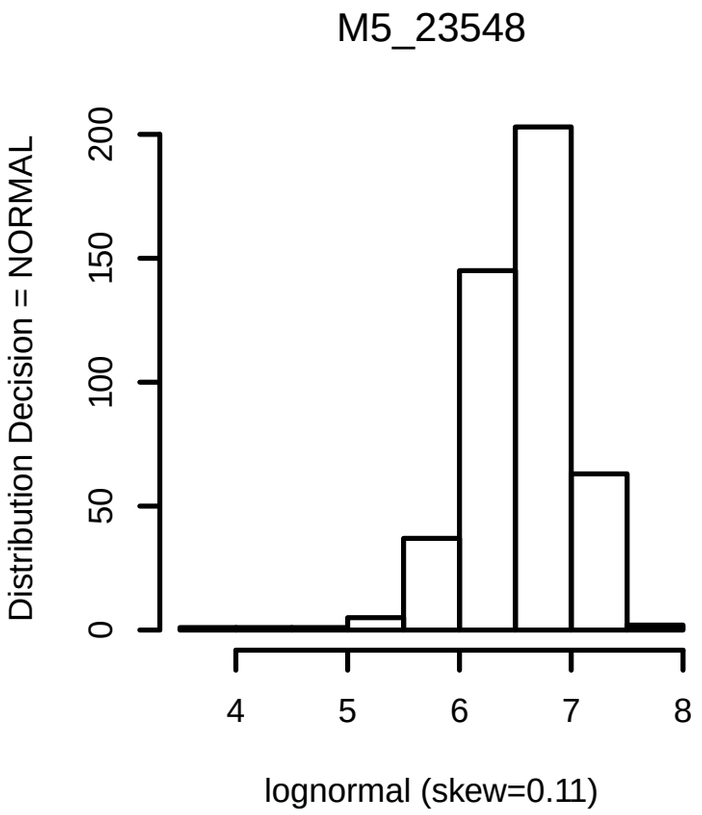

M5_37823
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
15000
normal (skew=1)

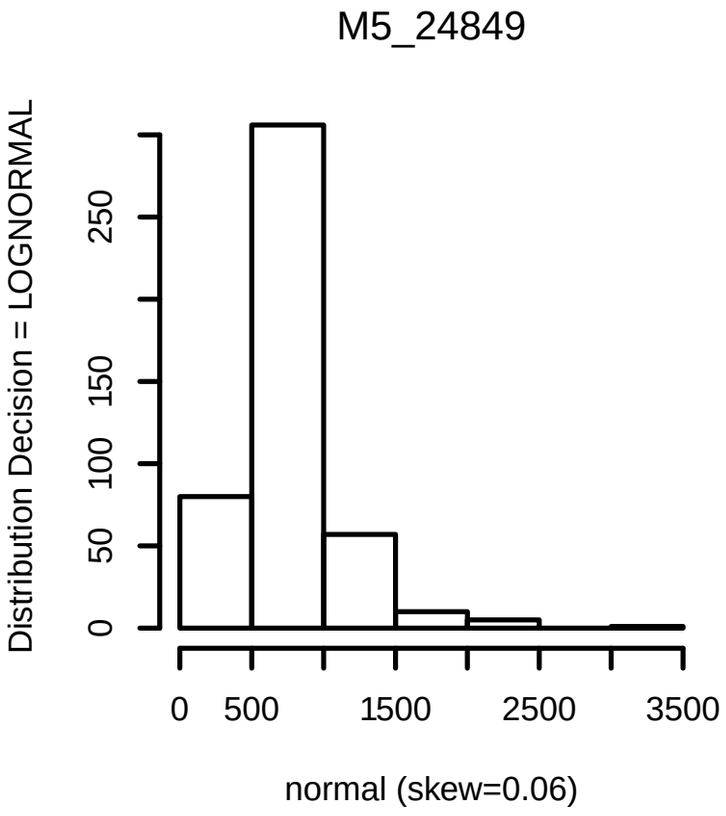

M5_37823
Distribution Decision = LOGNORMAL
0
20
40
60
80
0
2
4
6
8
10
lognormal (skew=0.47)

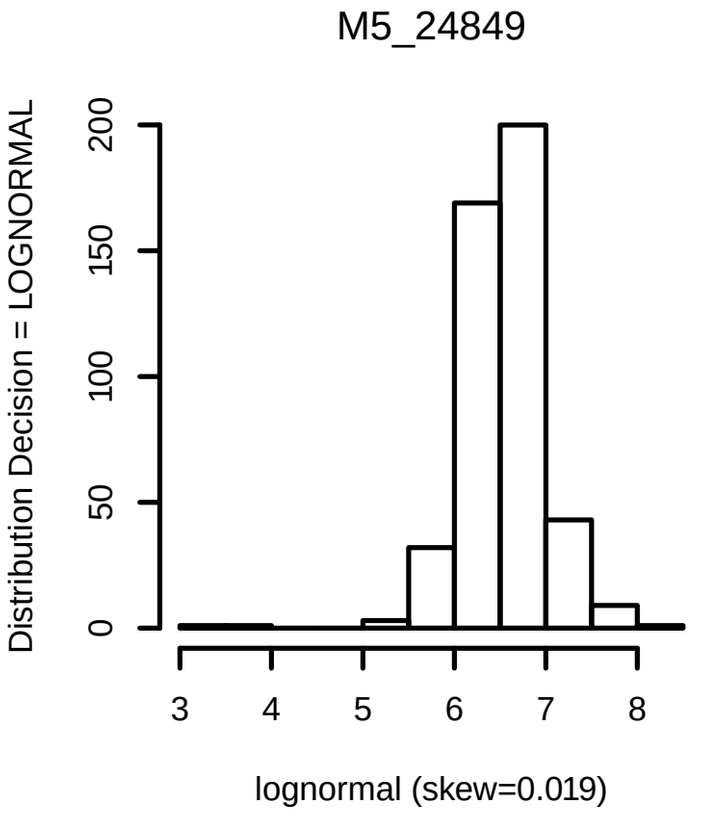

M5_18951
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
2000
4000
6000
8000
normal (skew=0.97)

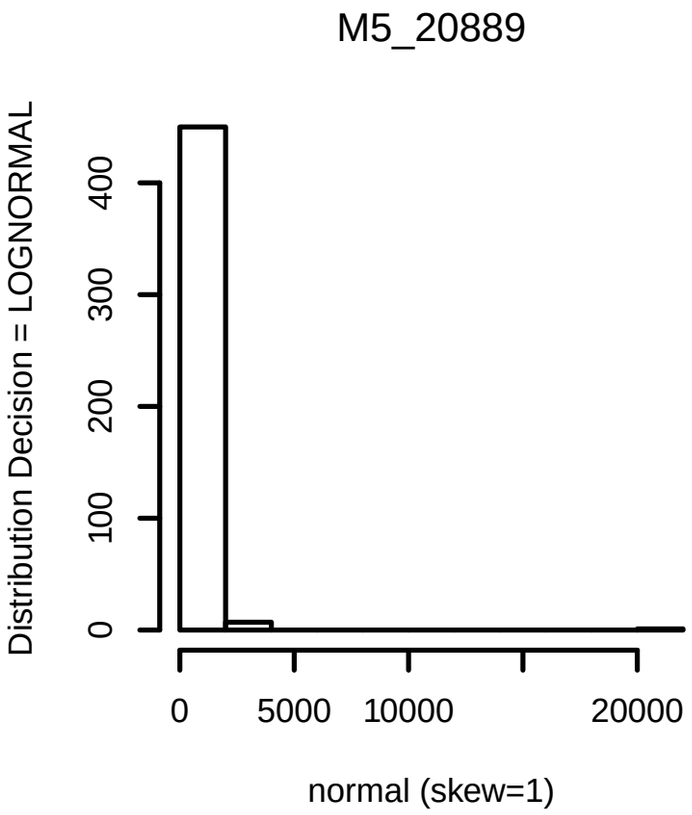

M5_18951
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
9
lognormal (skew=0.38)

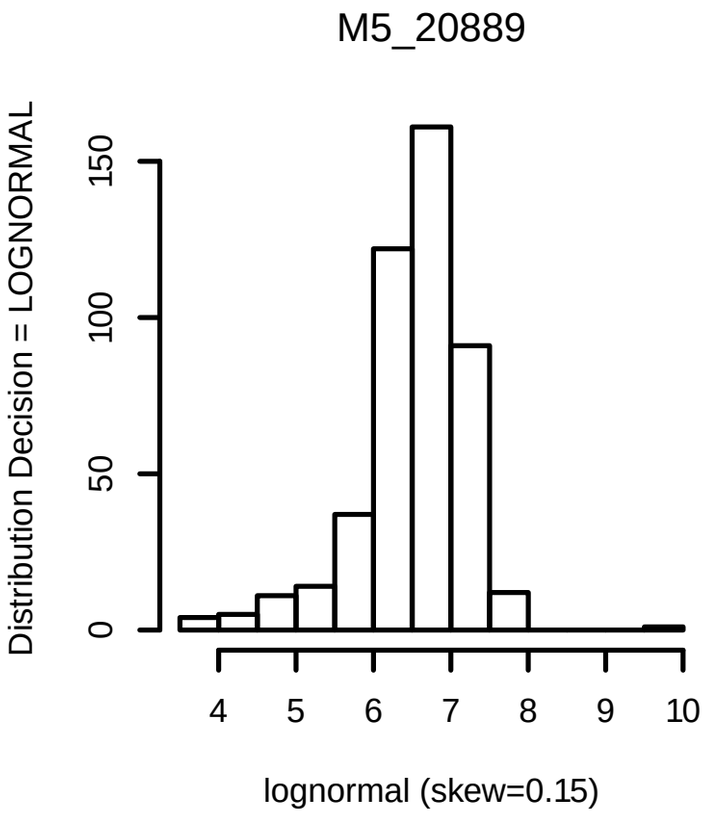

M5_23548
Distribution Decision = NORMAL
0
20
40
60
80
100
120
0
500
1000
1500
2000
normal (skew=0.1)

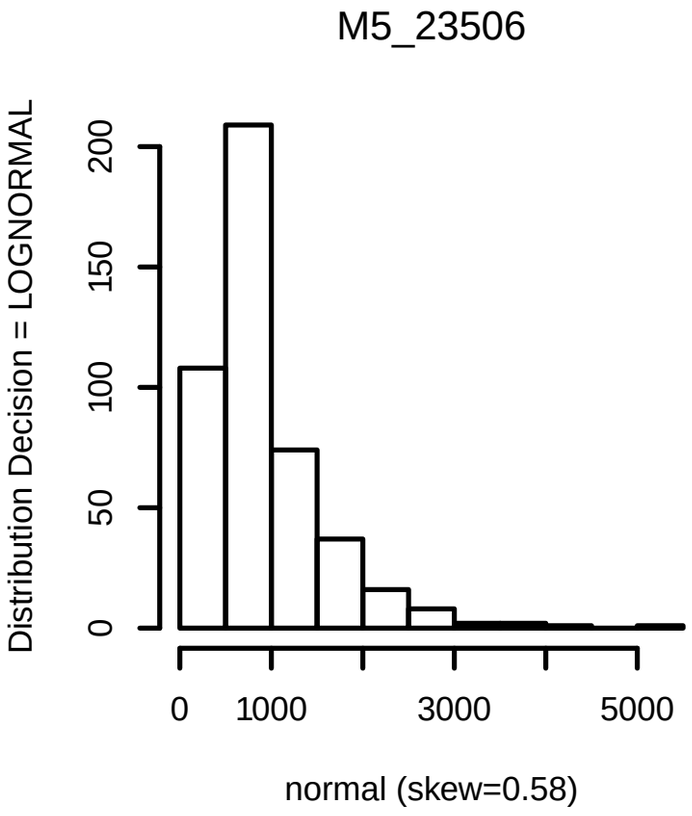

M5_23548
Distribution Decision = NORMAL
0
50
100
150
200
4
5
6
7
8
lognormal (skew=0.11)

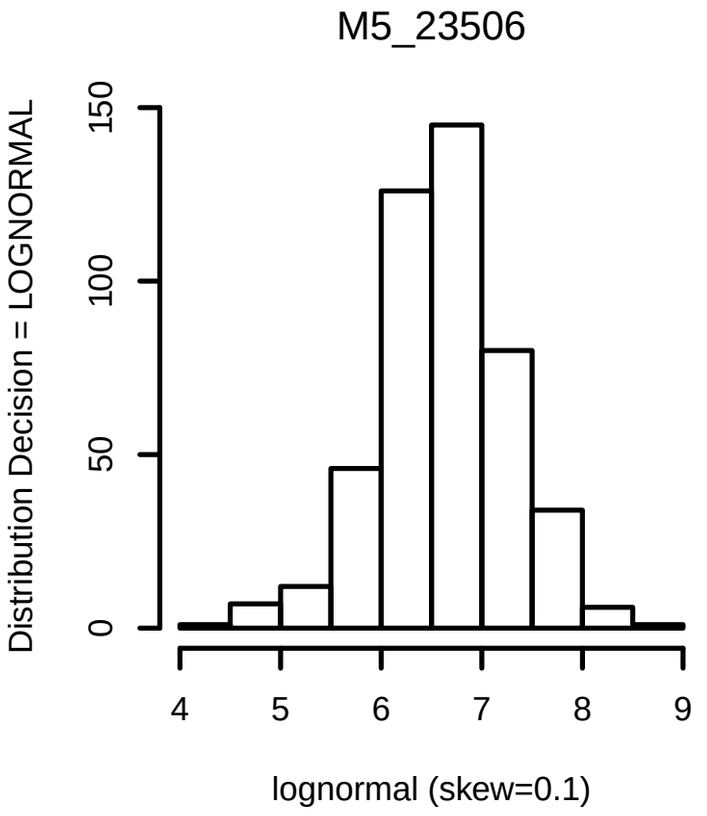

M5_24849
Distribution Decision = LOGNORMAL
0
50
100
150
250
0
500
1500
2500
3500
normal (skew=0.06)

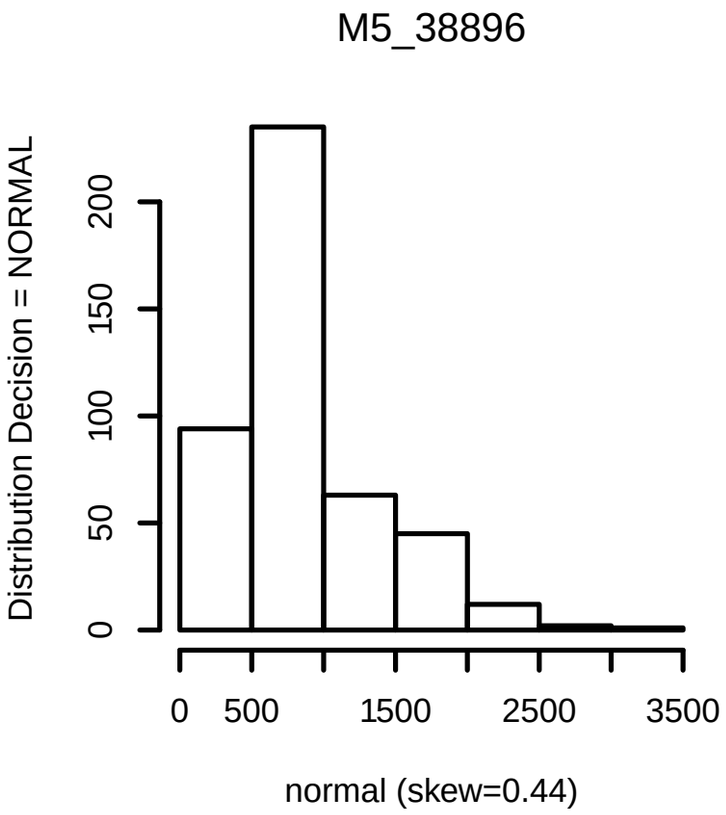

M5_24849
Distribution Decision = LOGNORMAL
0
50
100
150
200
3
4
5
6
7
8
lognormal (skew=0.019)

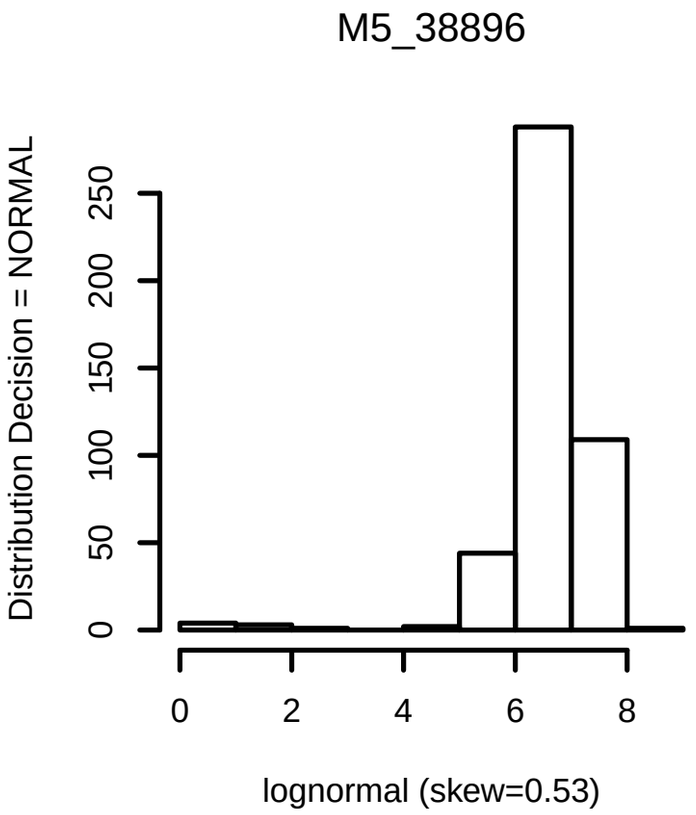

M5_20889
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
20000
normal (skew=1)

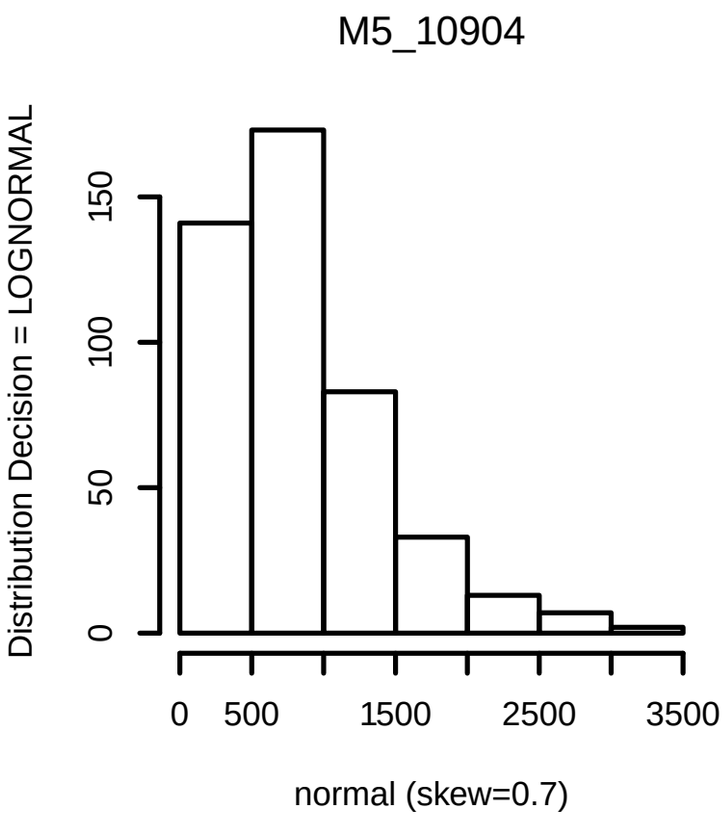

M5_20889
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
9
10
lognormal (skew=0.15)

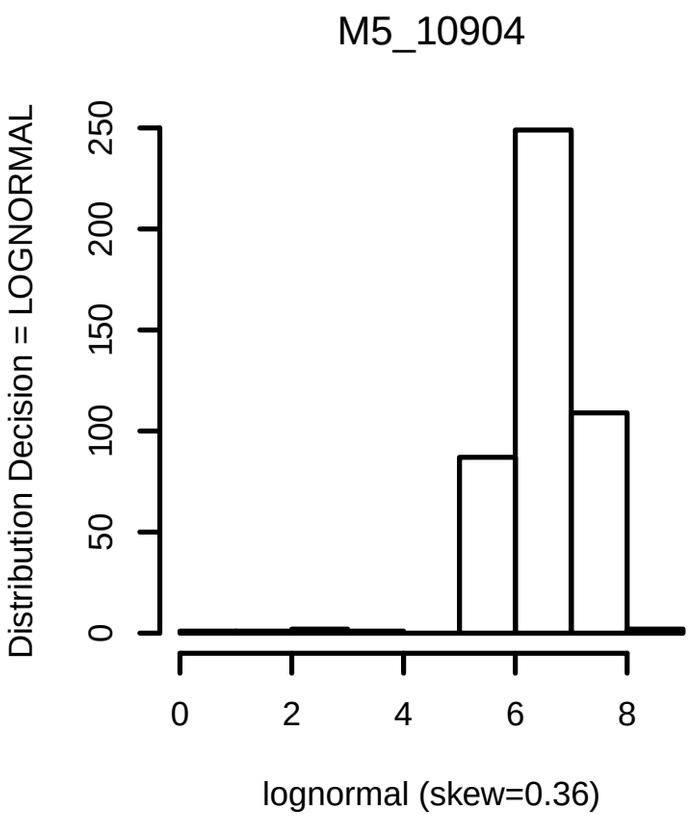

M5_23506
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
3000
5000
normal (skew=0.58)

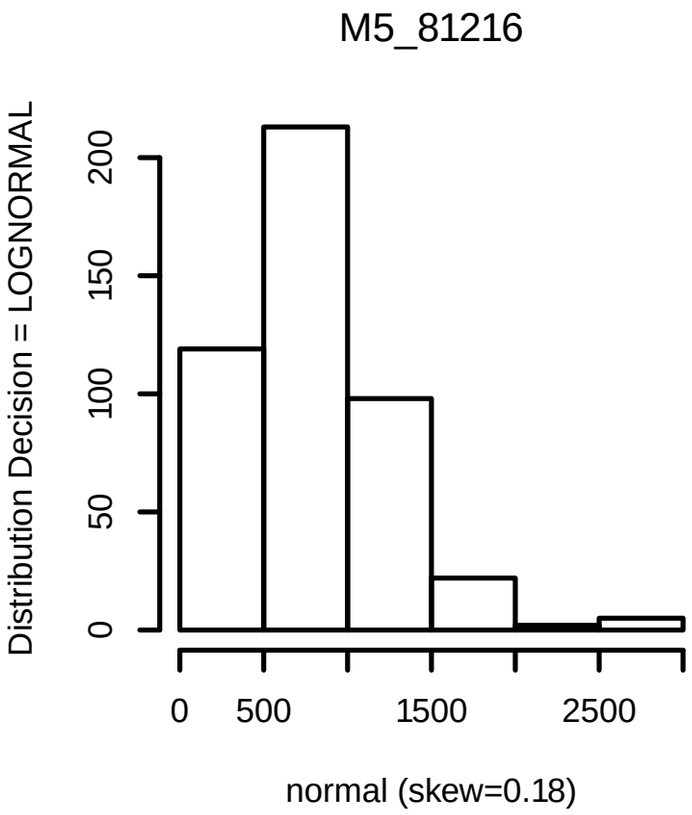

M5_23506
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
9
lognormal (skew=0.1)

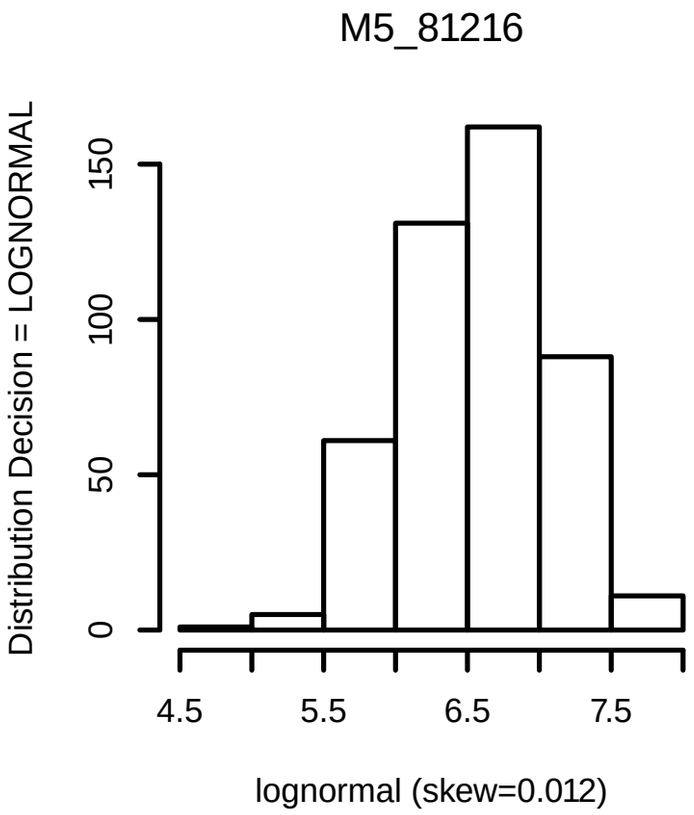

M5_38896
Distribution Decision = NORMAL
0
50
100
150
200
0
500
1500
2500
3500
normal (skew=0.44)

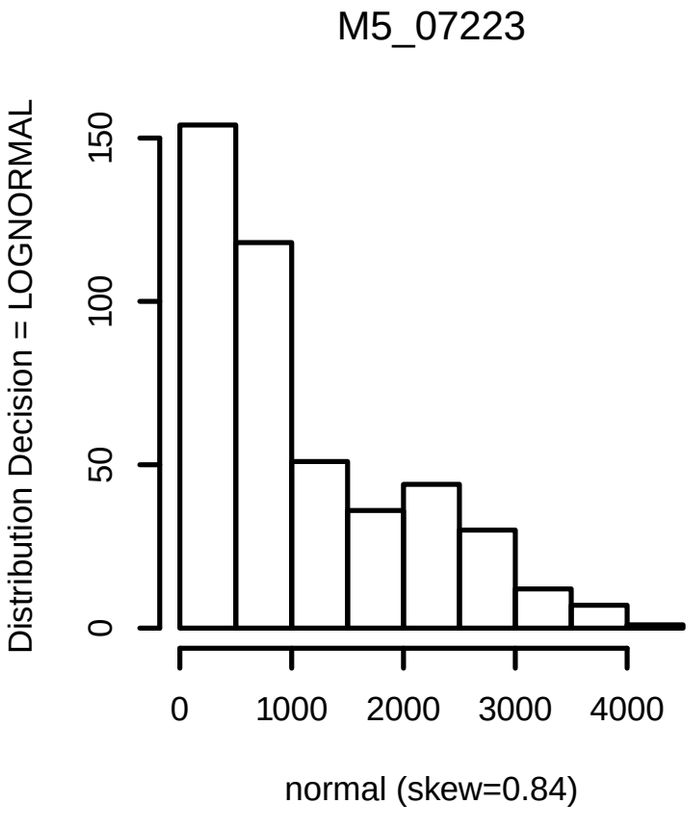

M5_38896
Distribution Decision = NORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.53)

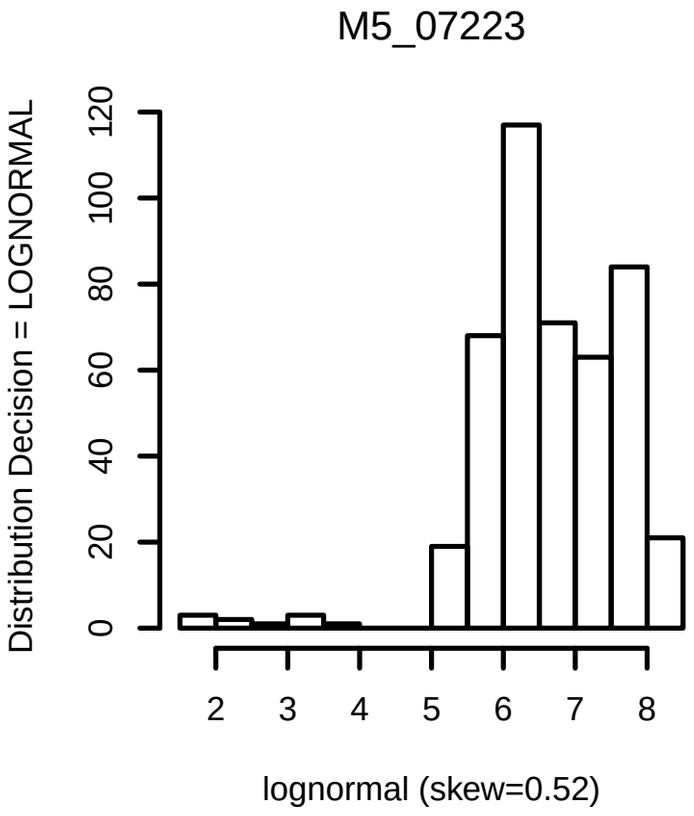

M5_10904
Distribution Decision = LOGNORMAL
0
50
100
150
0
500
1500
2500
3500
normal (skew=0.7)

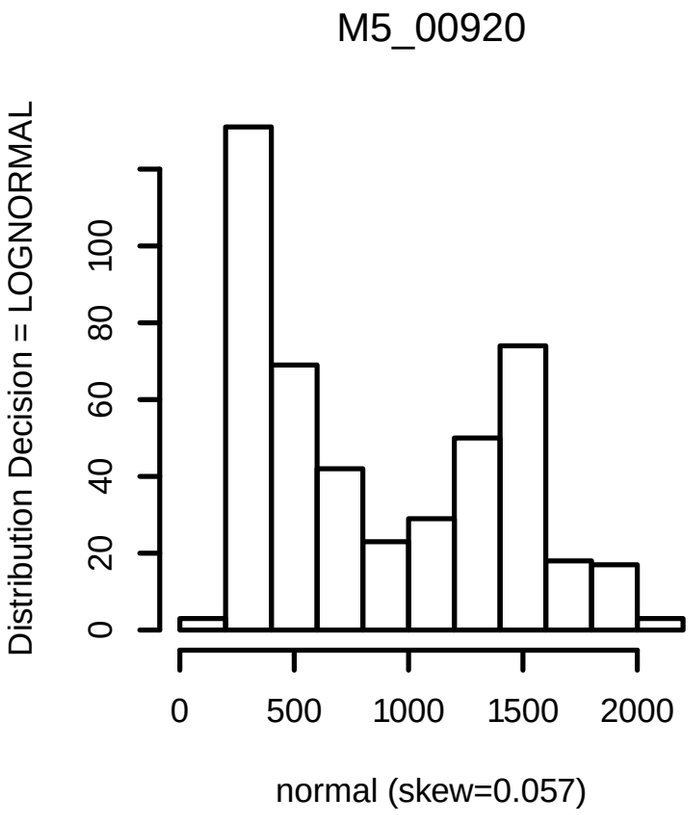

M5_10904
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.36)

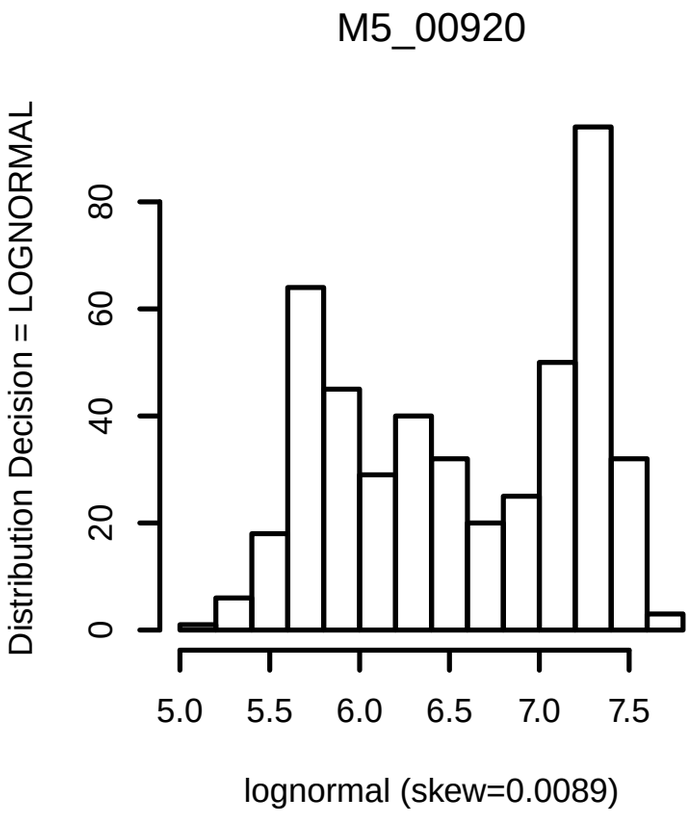

M5_81216
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1500
2500
normal (skew=0.18)

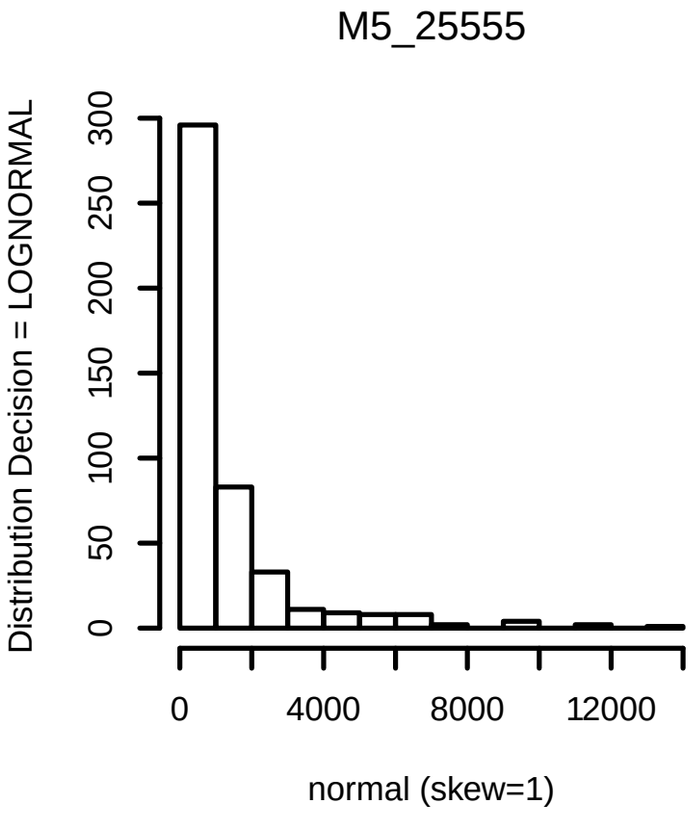

M5_81216
Distribution Decision = LOGNORMAL
0
50
100
150
4.5
5.5
6.5
7.5
lognormal (skew=0.012)

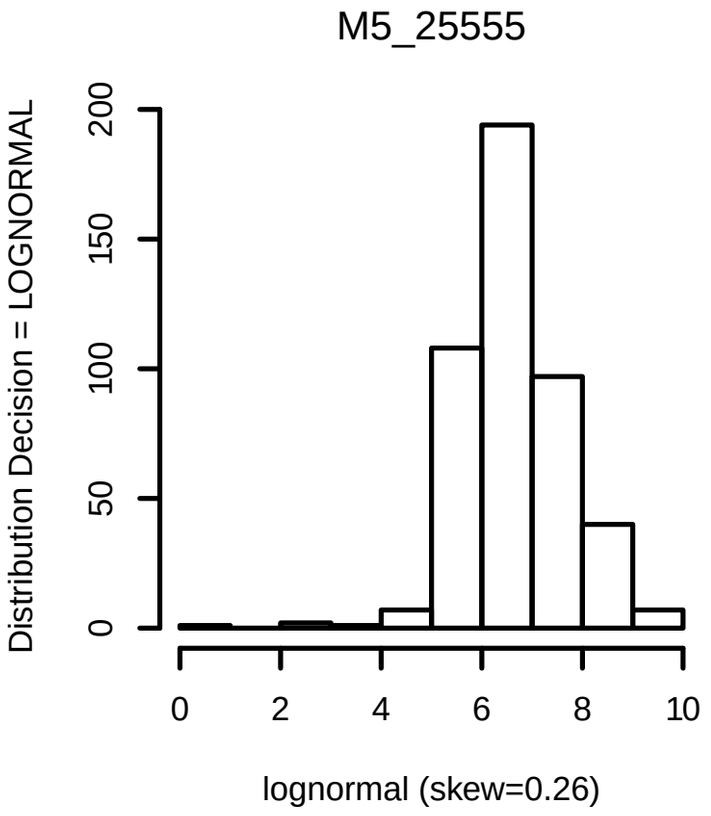

M5_07223
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.84)

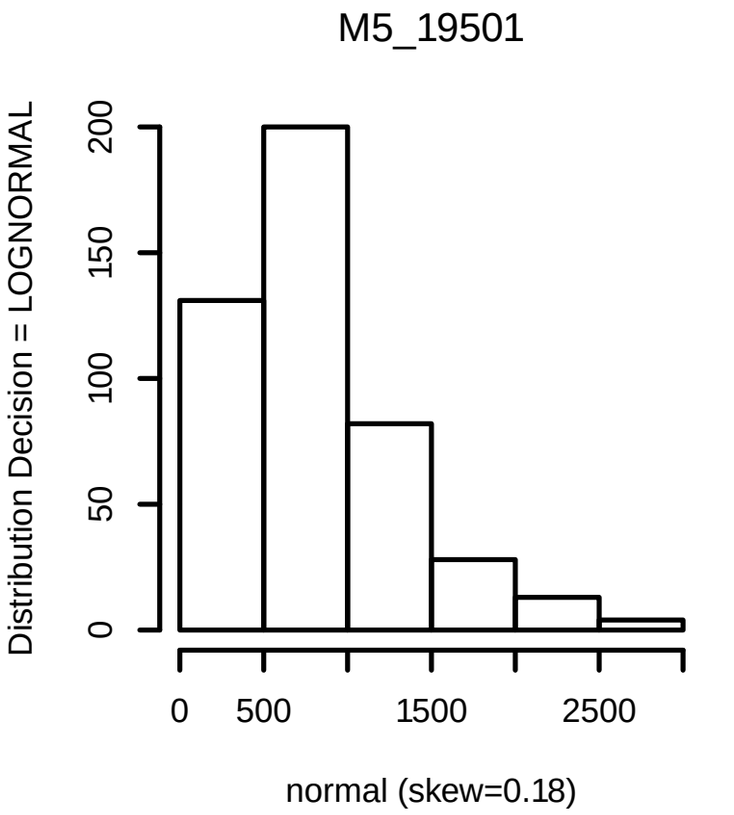

M5_07223
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
2
3
4
5
6
7
8
lognormal (skew=0.52)

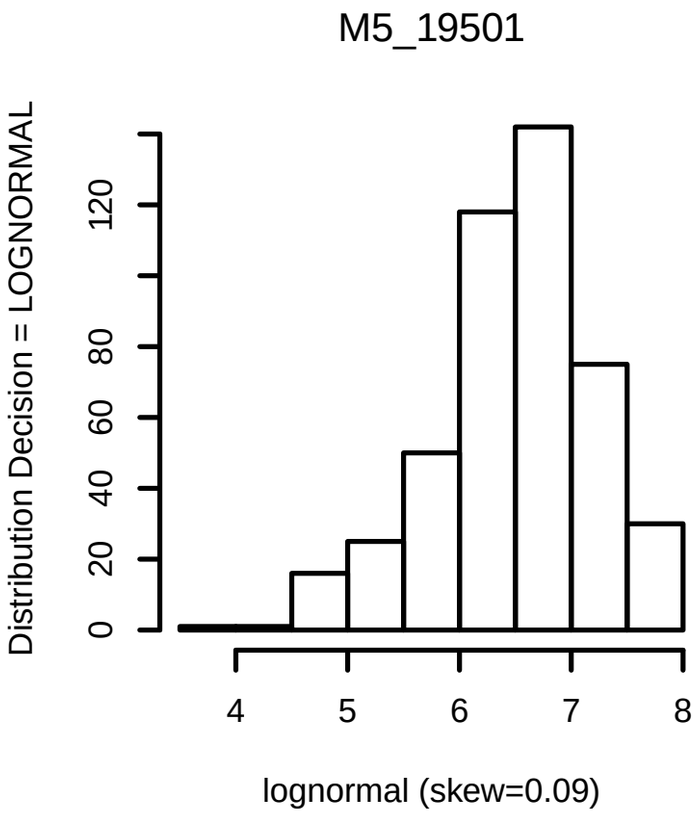

M5_00920
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
500
1000
1500
2000
normal (skew=0.057)

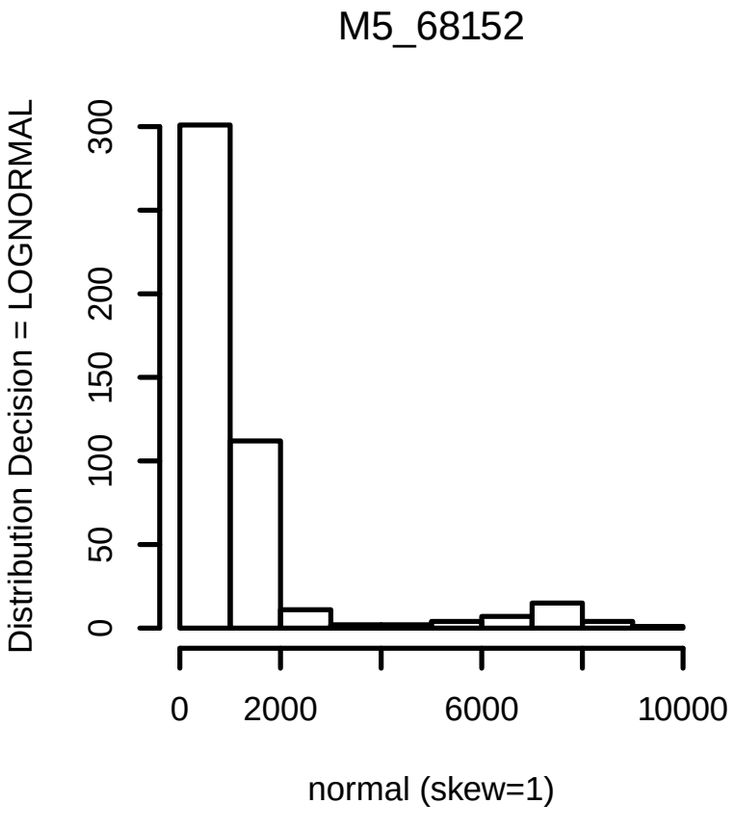

M5_00920
Distribution Decision = LOGNORMAL
0
20
40
60
80
5.0
5.5
6.0
6.5
7.0
7.5
lognormal (skew=0.0089)

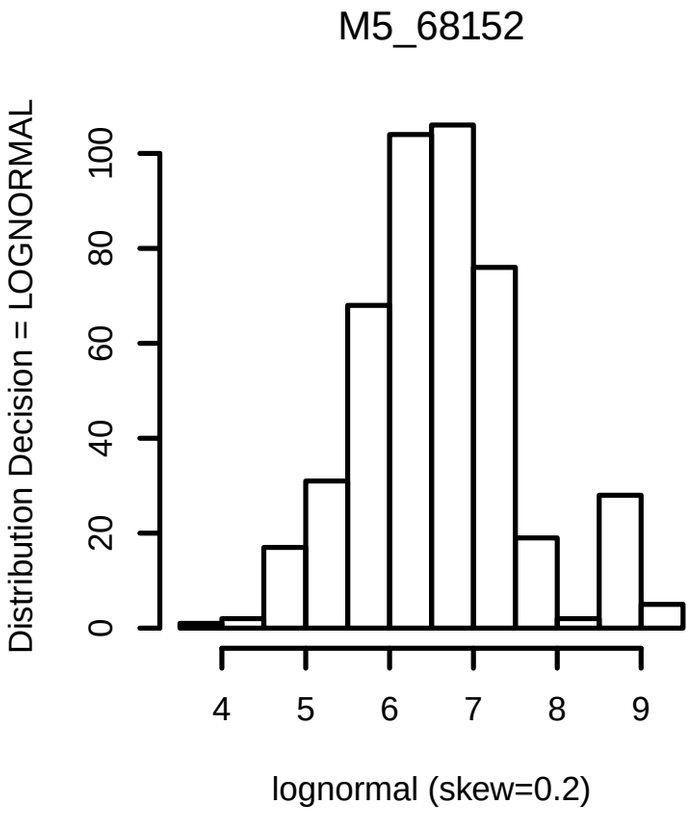

M5_25555
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
4000
8000
12000
normal (skew=1)

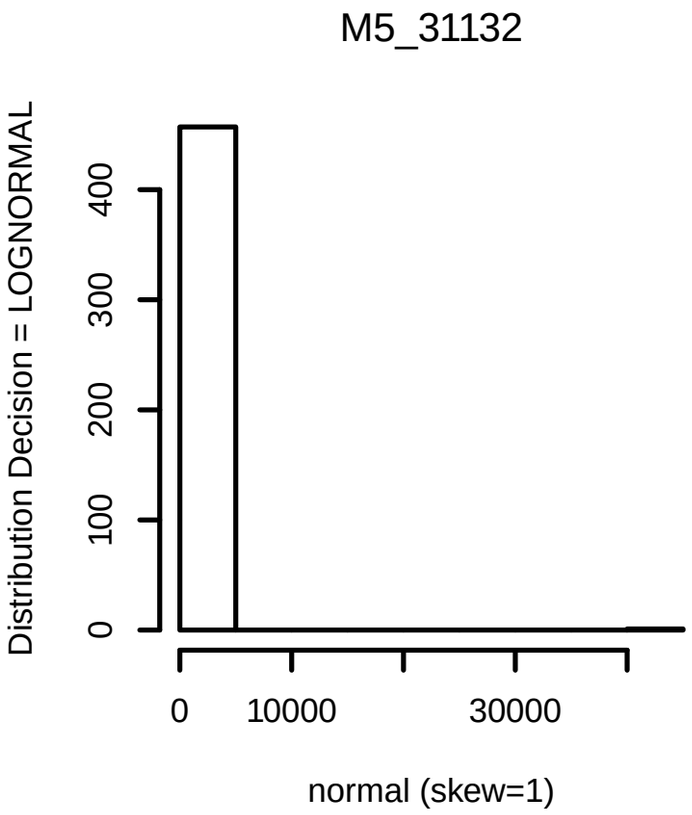

M5_25555
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
10
lognormal (skew=0.26)

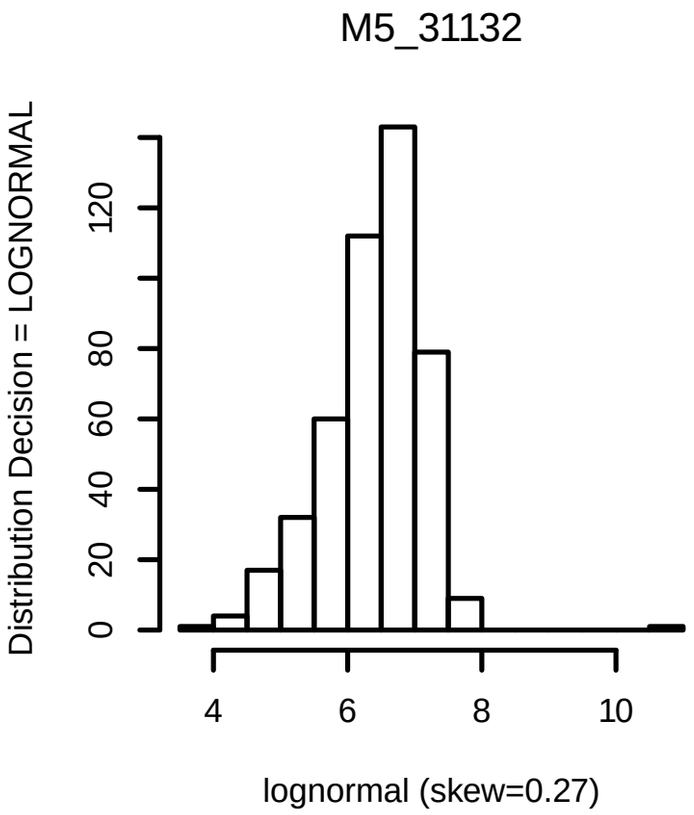

M5_19501
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1500
2500
normal (skew=0.18)

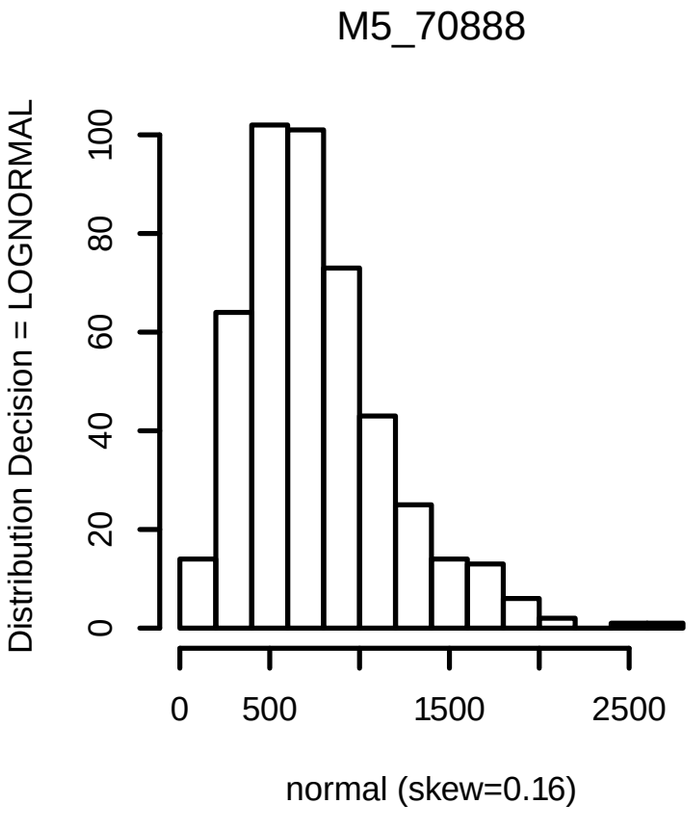

M5_19501
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
4
5
6
7
8
lognormal (skew=0.09)

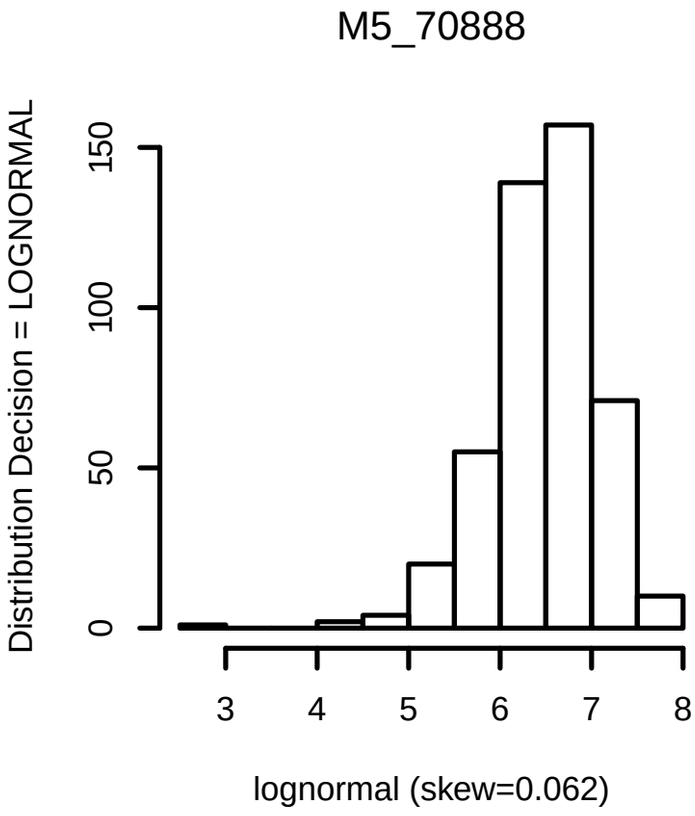

M5_68152
Distribution Decision = LOGNORMAL
0
50
100
150
200
300
0
2000
6000
10000
normal (skew=1)

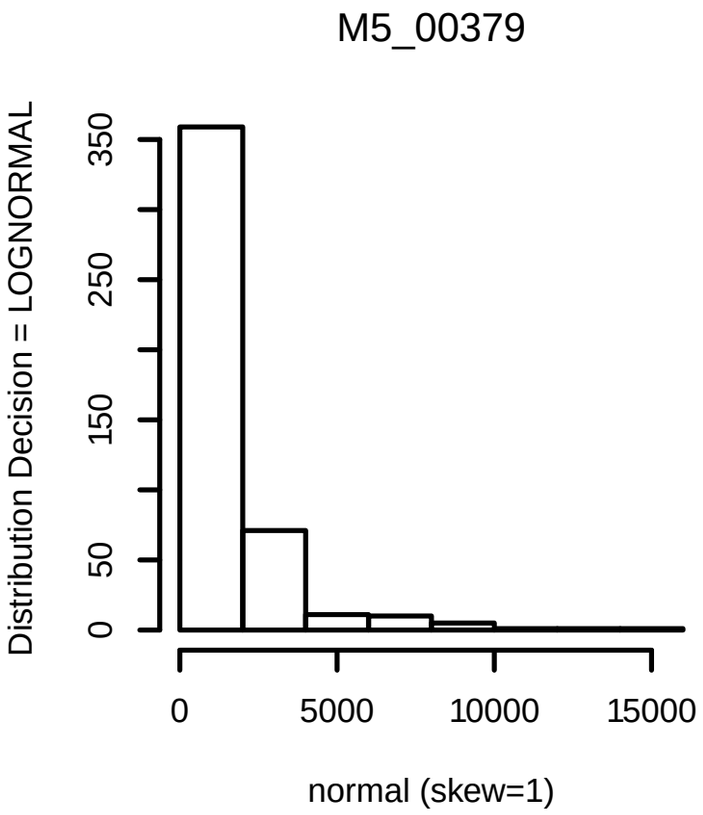

M5_68152
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
9
lognormal (skew=0.2)

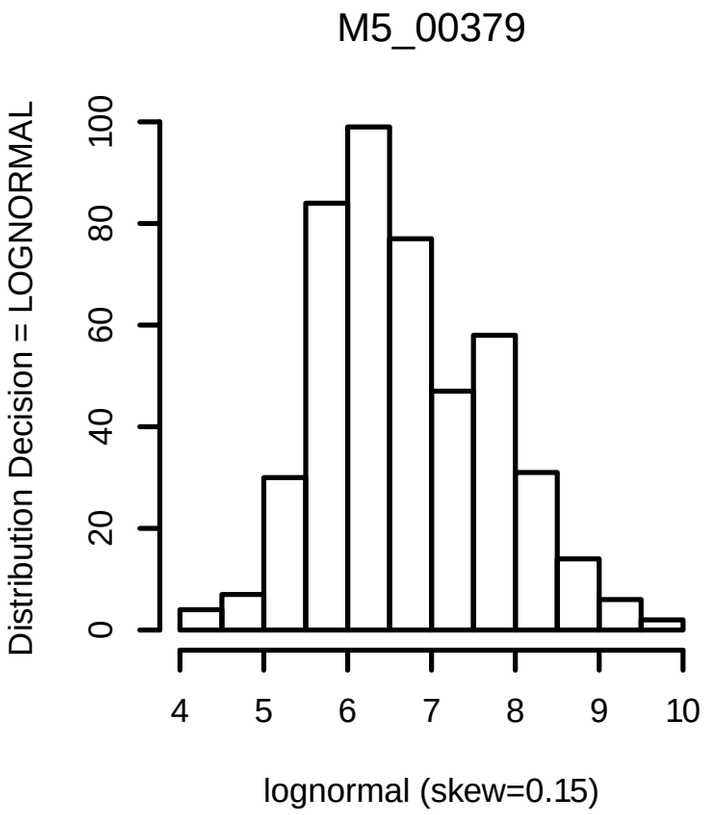

M5_31132
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
30000
normal (skew=1)

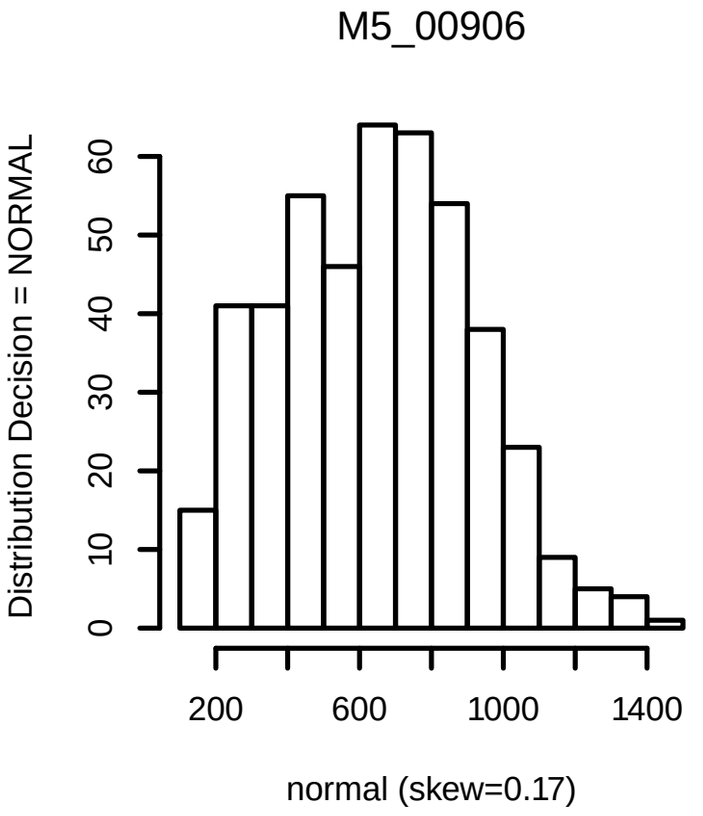

M5_31132
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
4
6
8
10
lognormal (skew=0.27)

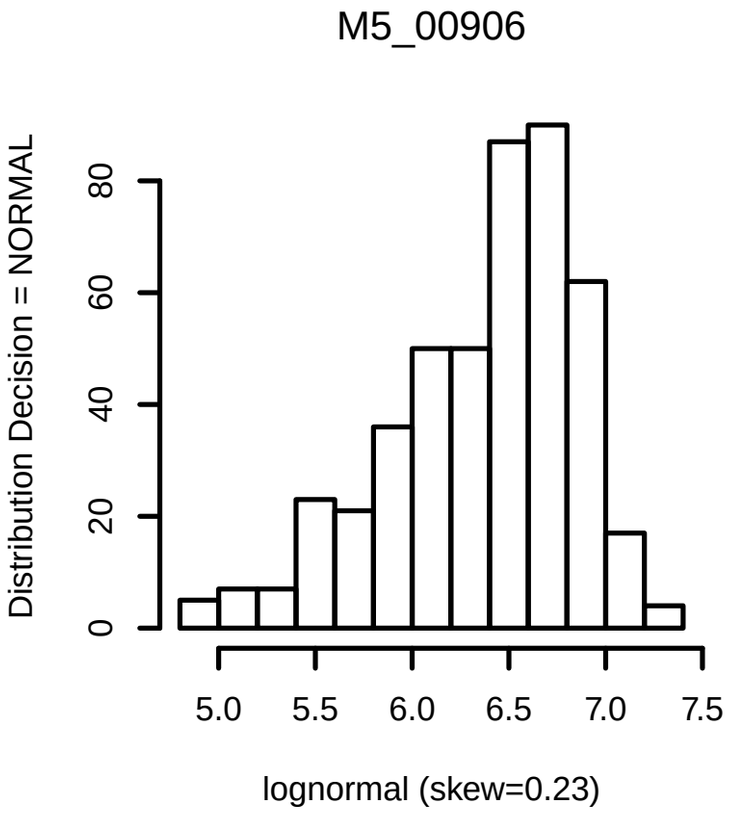

M5_70888
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
500
1500
2500
normal (skew=0.16)

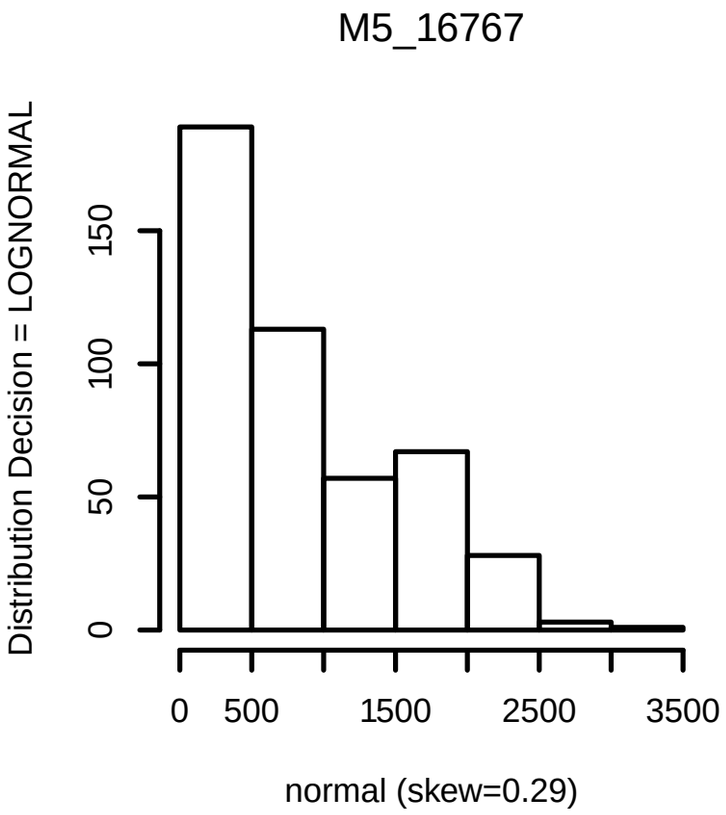

M5_70888
Distribution Decision = LOGNORMAL
0
50
100
150
3
4
5
6
7
8
lognormal (skew=0.062)

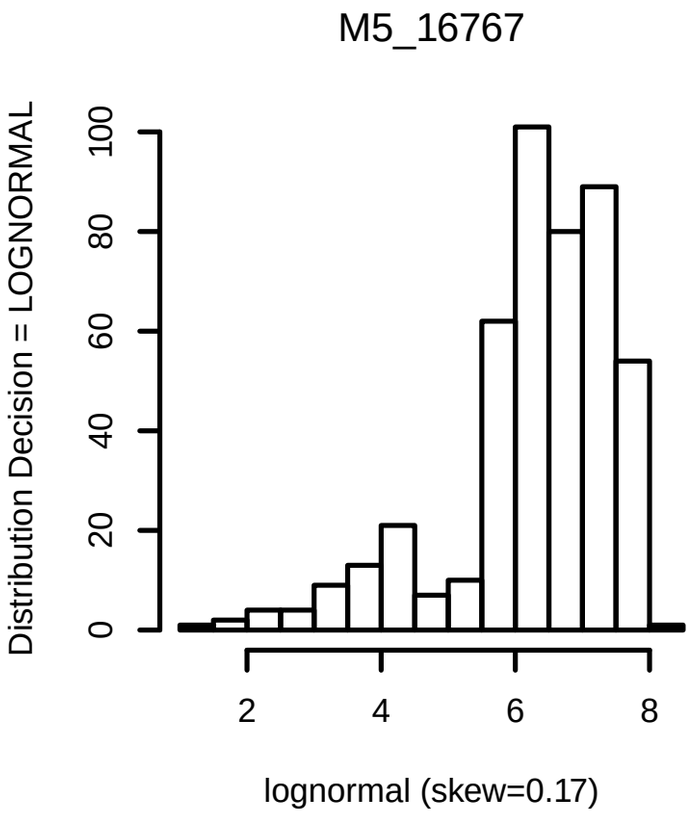

M5_00379
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
5000
10000
15000
normal (skew=1)

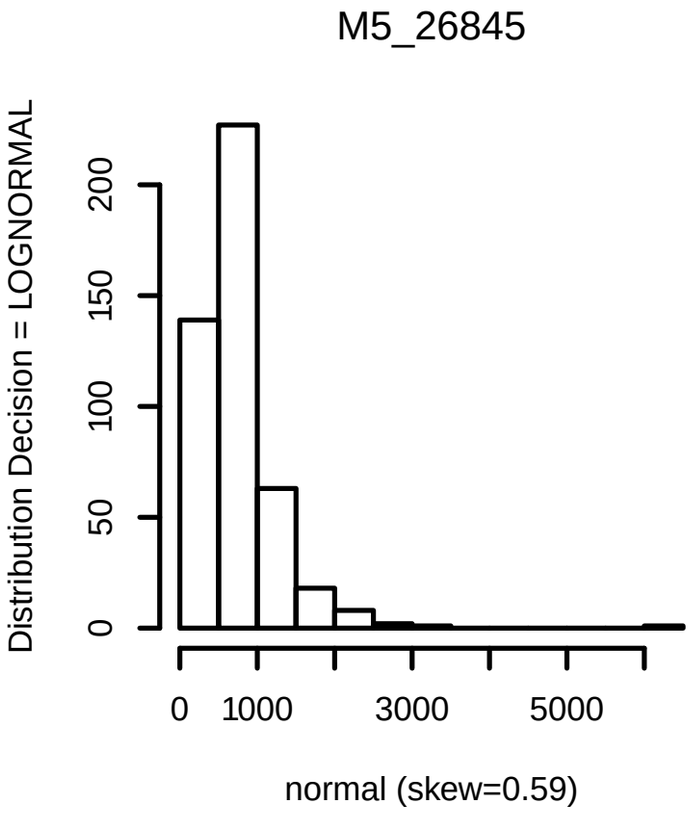

M5_00379
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
9
10
lognormal (skew=0.15)

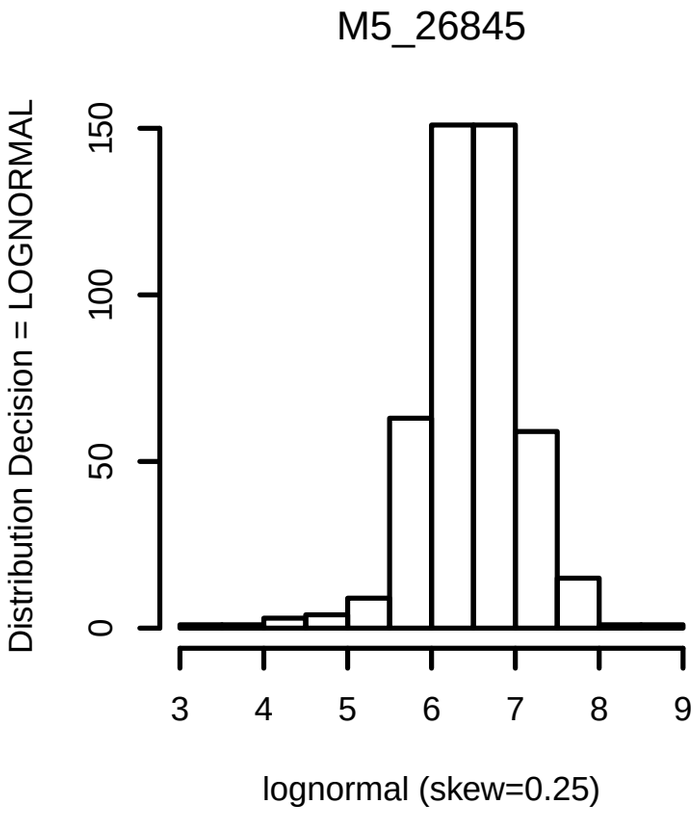

M5_00906
Distribution Decision = NORMAL
0
10
20
30
40
50
60
200
600
1000
1400
normal (skew=0.17)

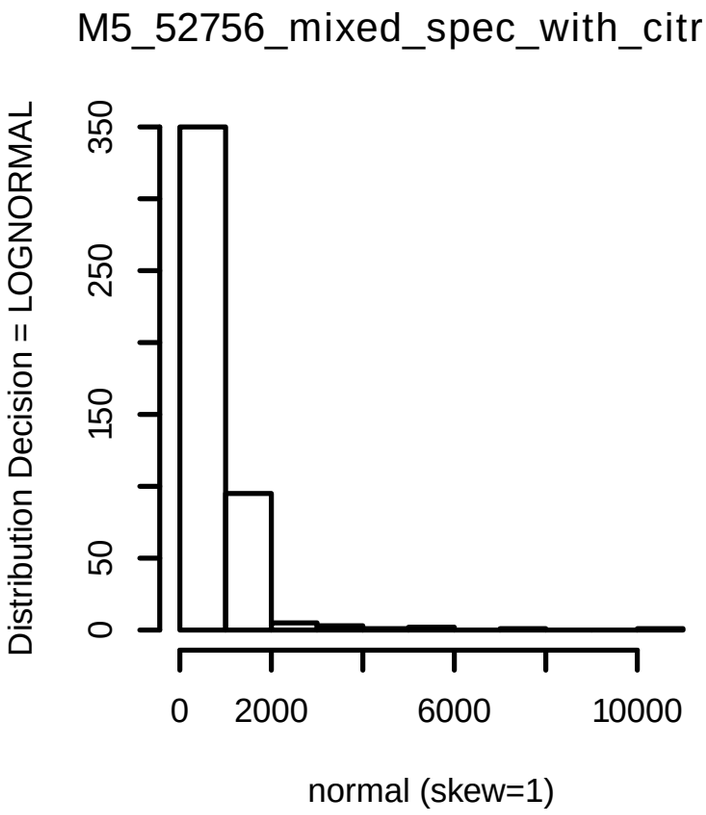

M5_00906
Distribution Decision = NORMAL
0
20
40
60
80
5.0
5.5
6.0
6.5
7.0
7.5
lognormal (skew=0.23)

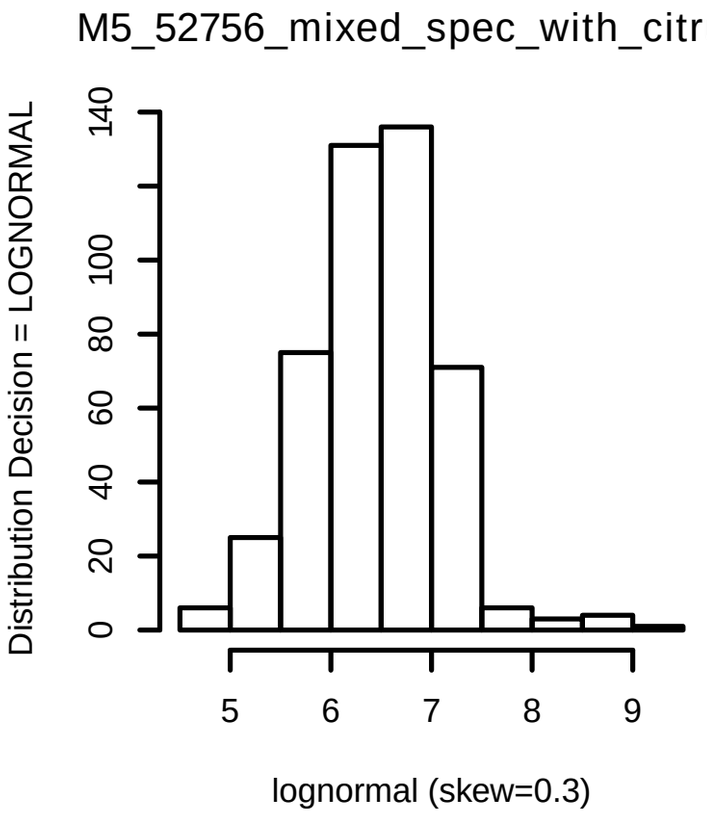

M5_16767
Distribution Decision = LOGNORMAL
0
50
100
150
0
500
1500
2500
3500
normal (skew=0.29)

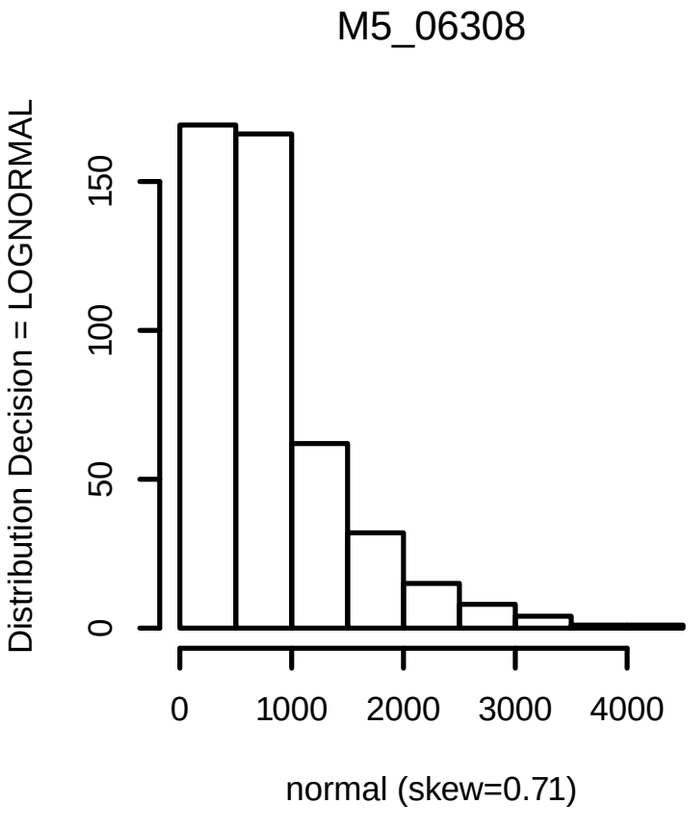

M5_16767
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
2
4
6
8
lognormal (skew=0.17)

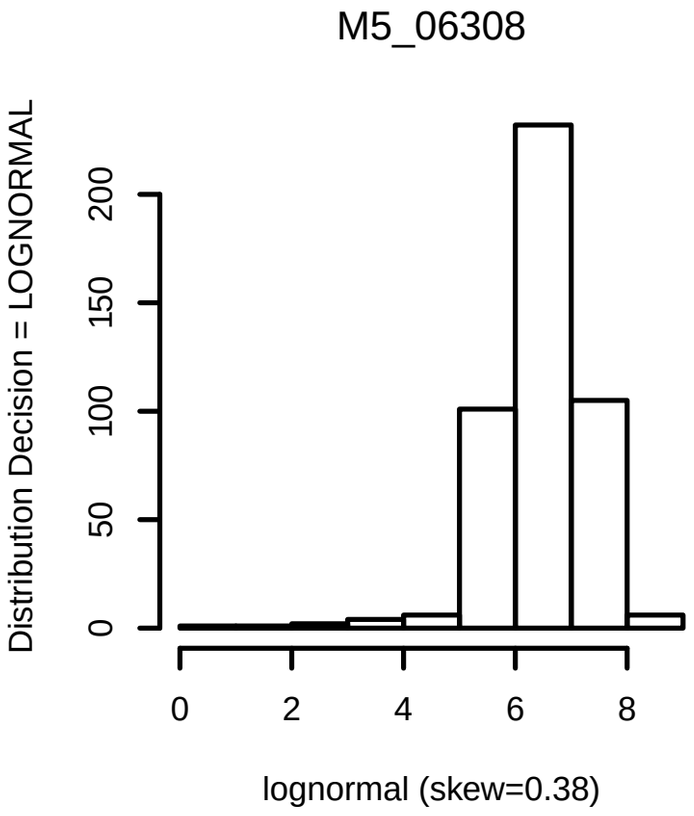

M5_26845
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
3000
5000
normal (skew=0.59)

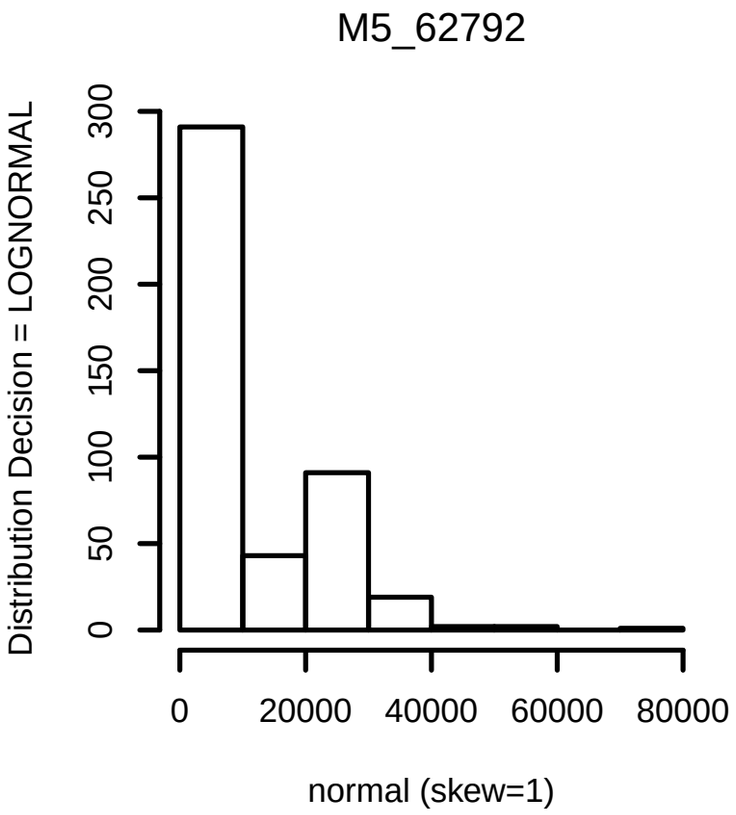

M5_26845
Distribution Decision = LOGNORMAL
0
50
100
150
3
4
5
6
7
8
9
lognormal (skew=0.25)

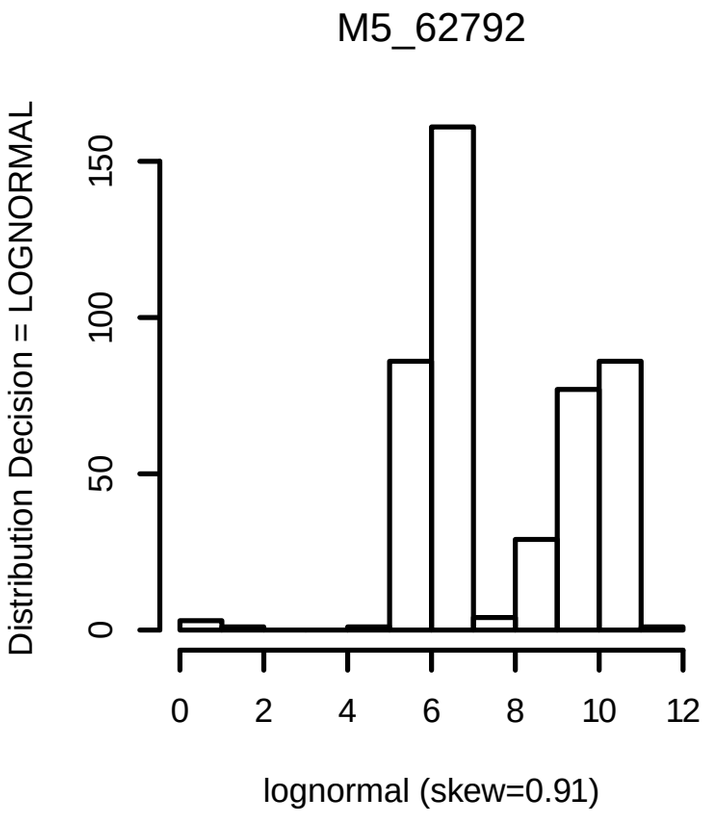

M5_52756_mixed_spec_with_citrullin
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
2000
6000
10000
normal (skew=1)

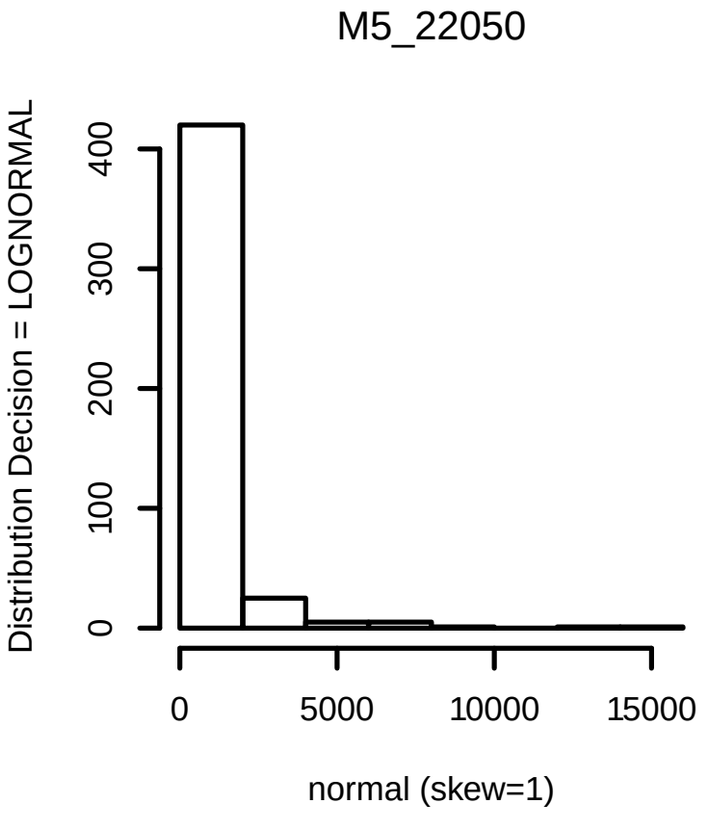

M5_52756_mixed_spec_with_citrullin
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
5
6
7
8
9
lognormal (skew=0.3)

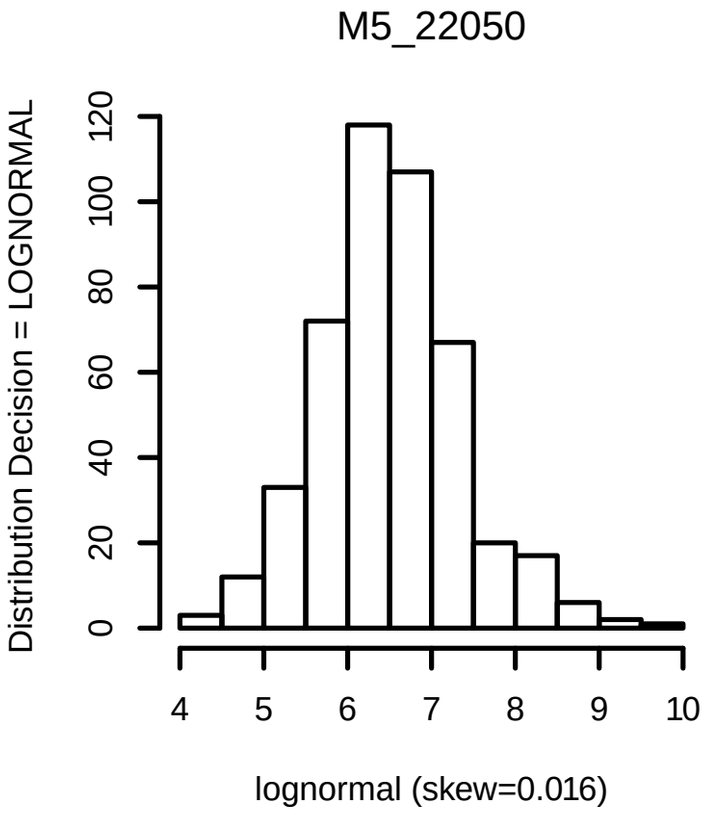

M5_06308
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.71)

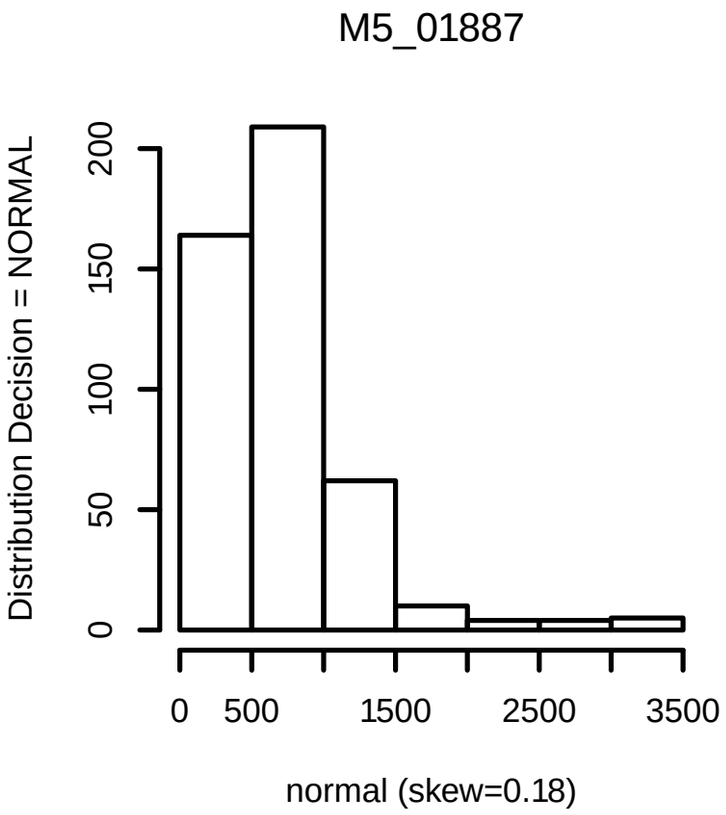

M5_06308
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.38)

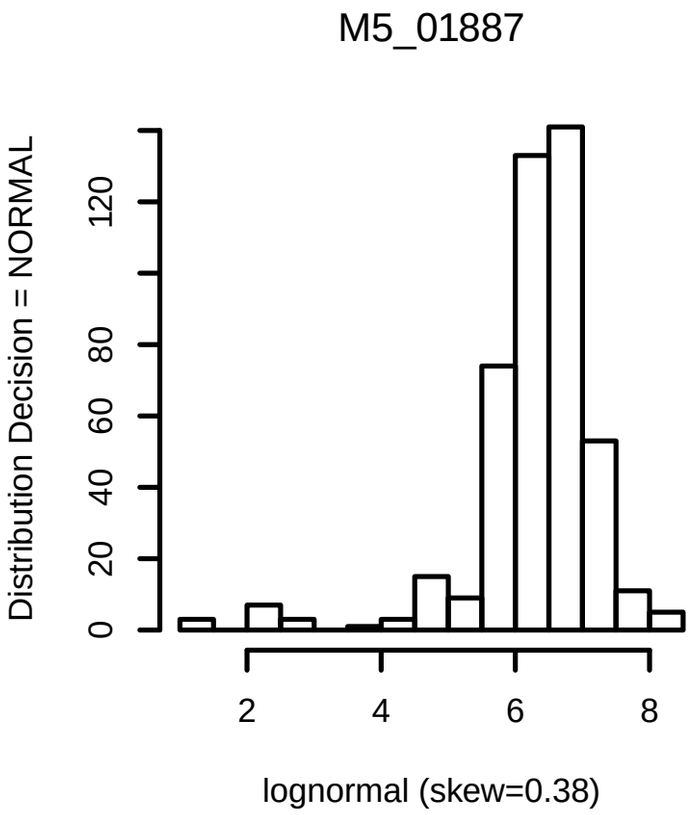

M5_62792
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
20000
40000
60000
80000
normal (skew=1)

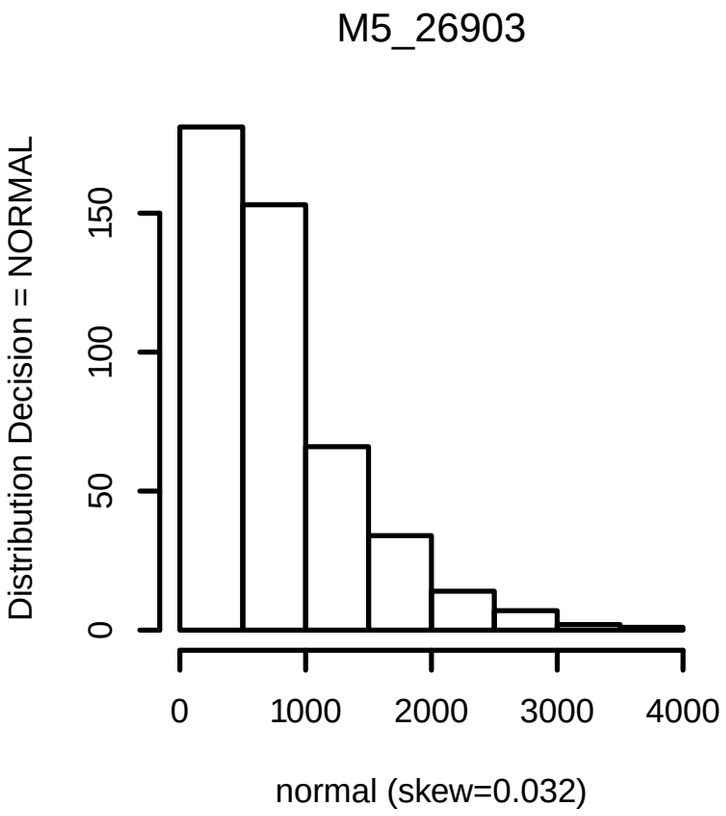

M5_62792
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
12
lognormal (skew=0.91)

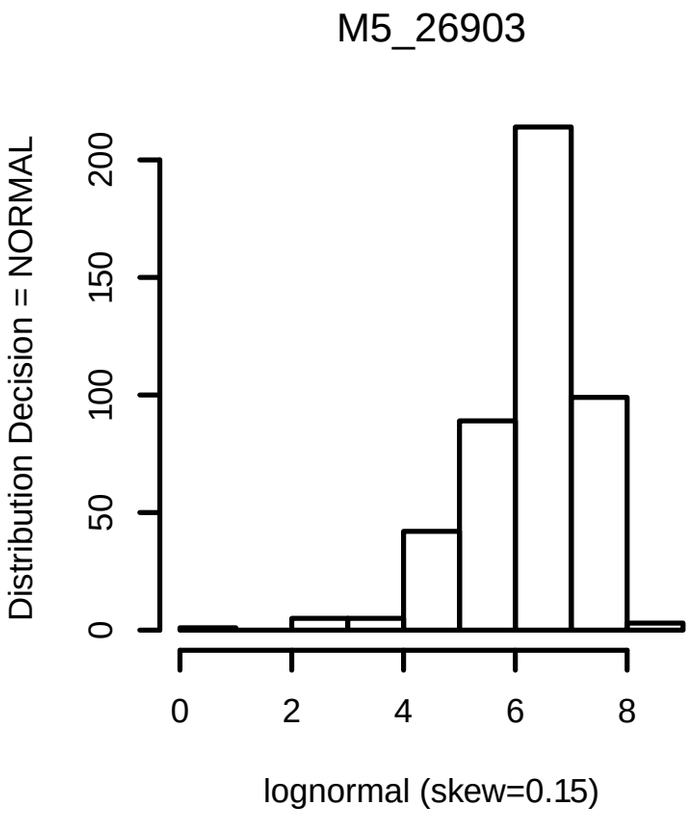

M5_22050
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
10000
15000
normal (skew=1)

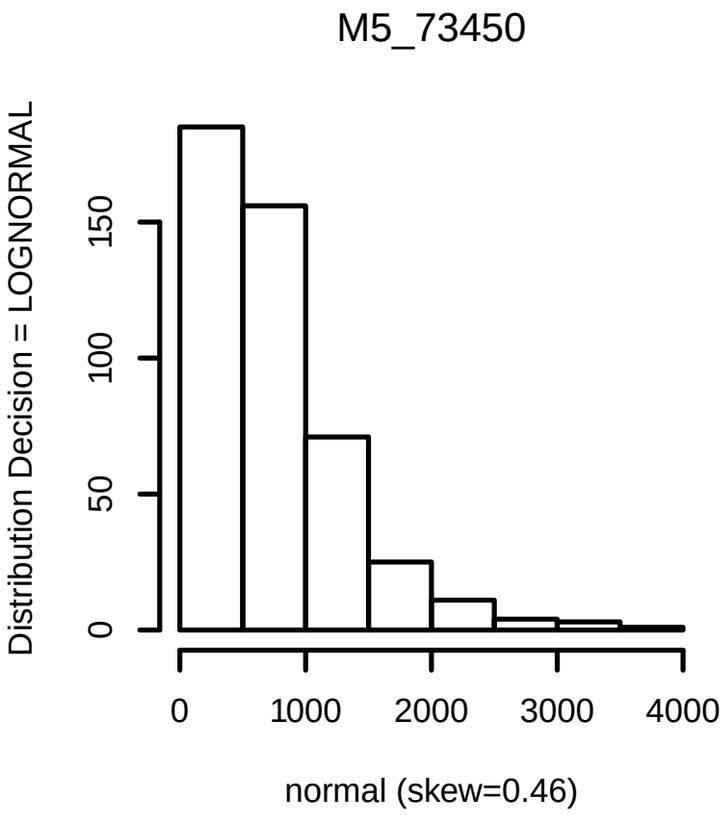

M5_22050
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
4
5
6
7
8
9
10
lognormal (skew=0.016)

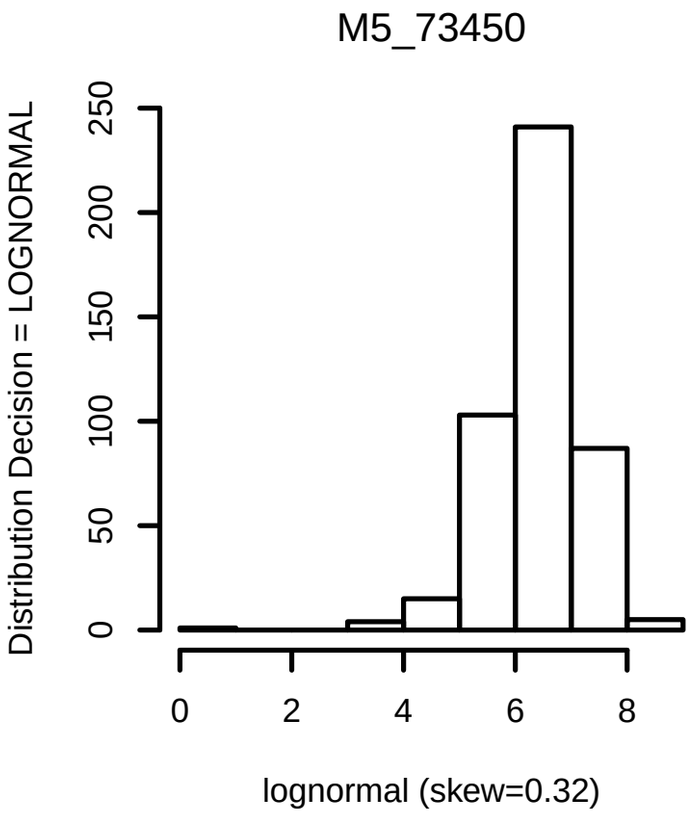

M5_01887
Distribution Decision = NORMAL
0
50
100
150
200
0
500
1500
2500
3500
normal (skew=0.18)

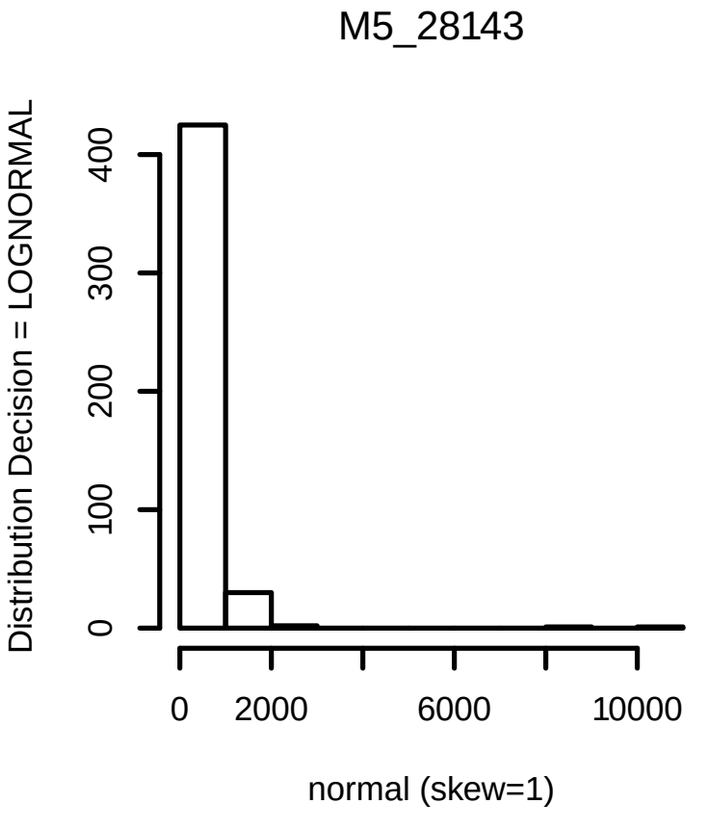

M5_01887
Distribution Decision = NORMAL
0
20
40
60
80
120
2
4
6
8
lognormal (skew=0.38)

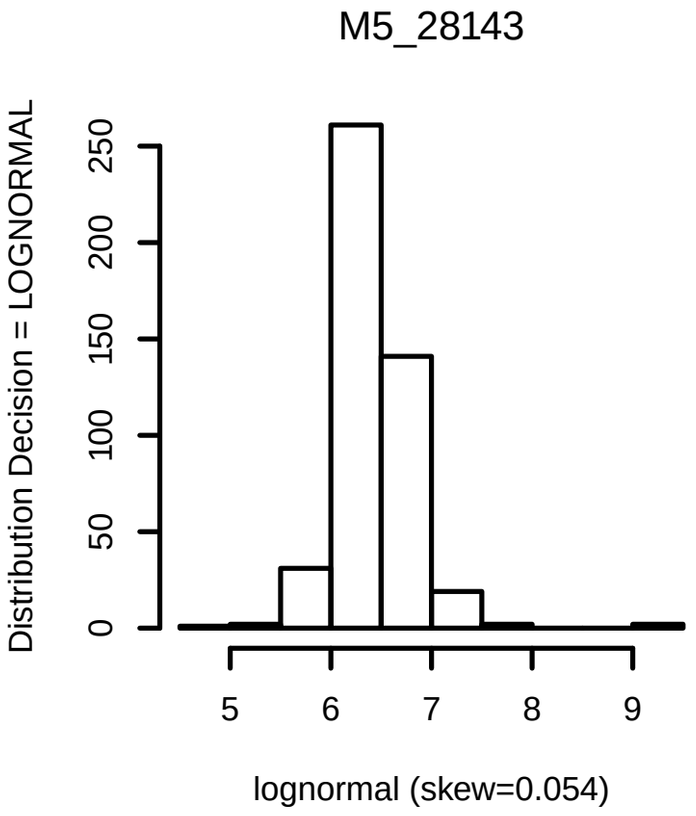

M5_26903
Distribution Decision = NORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.032)

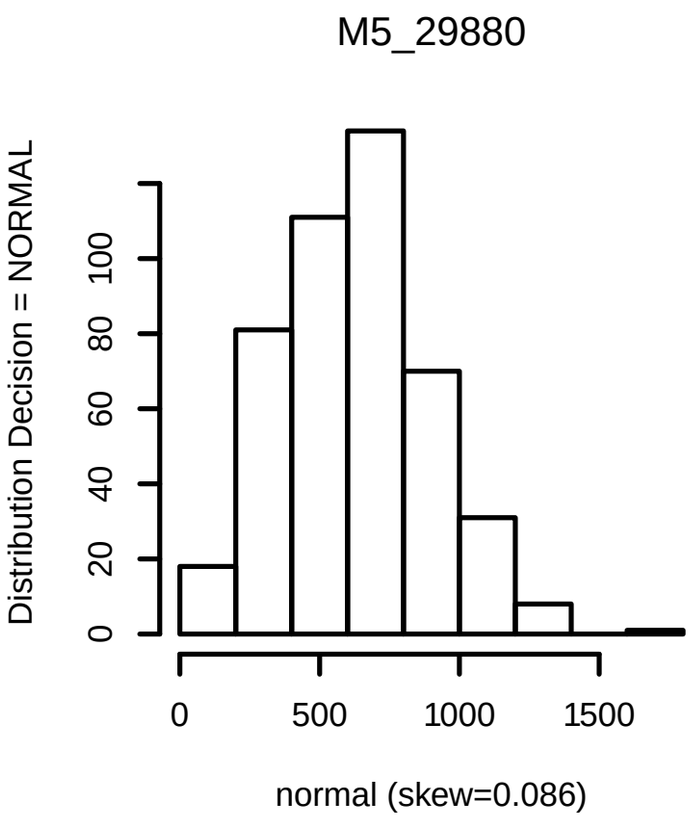

M5_26903
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.15)

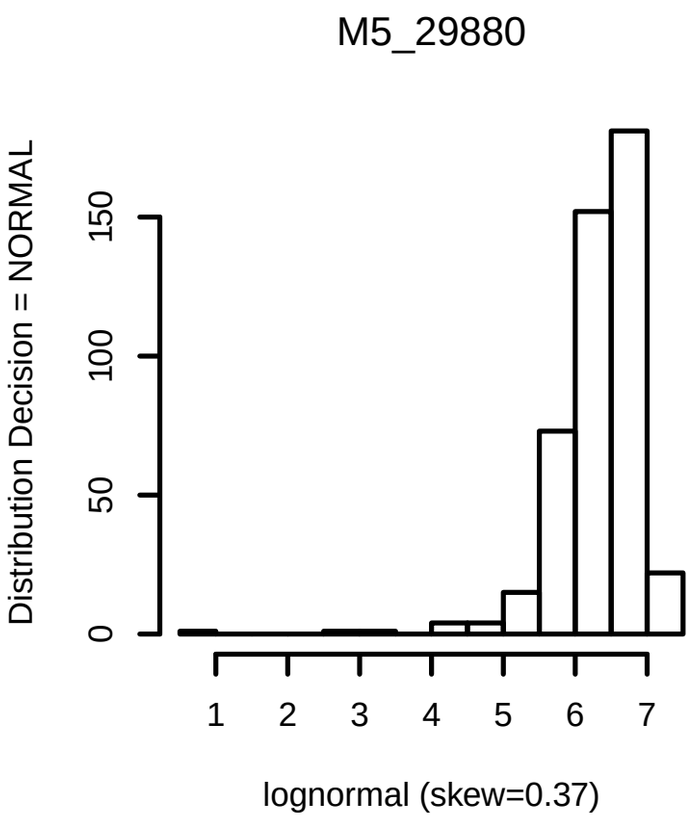

M5_73450
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.46)

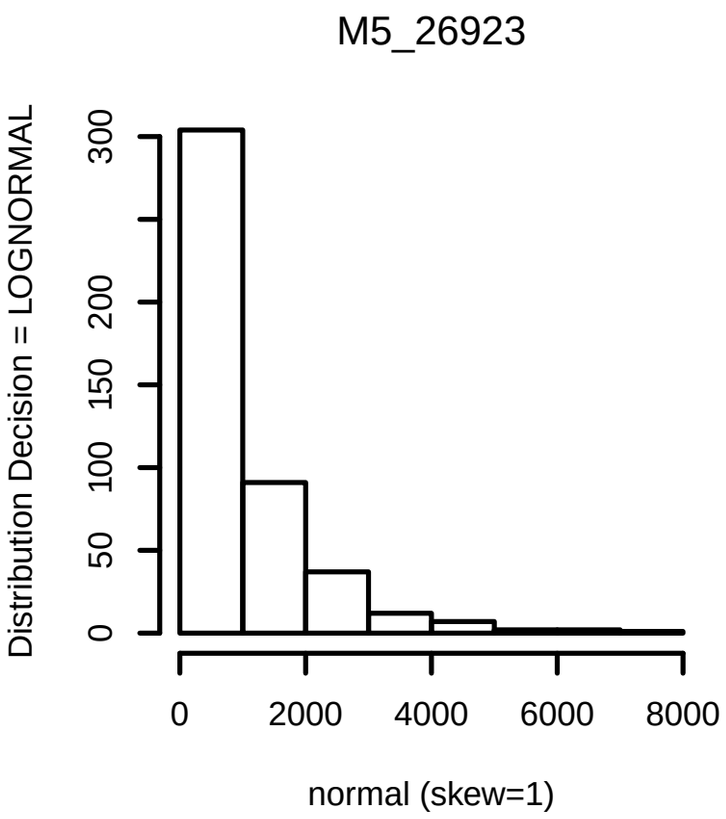

M5_73450
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.32)

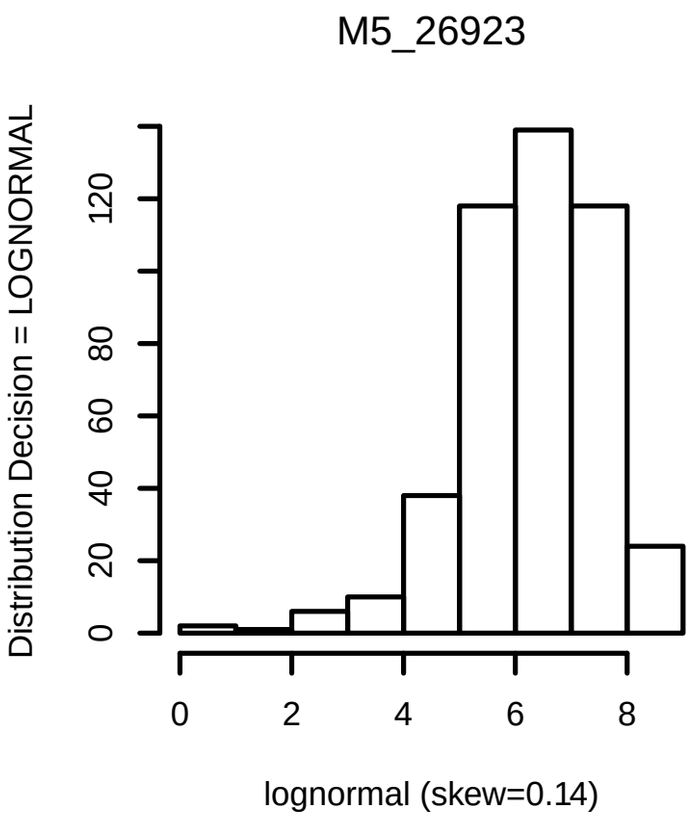

M5_28143
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
2000
6000
10000
normal (skew=1)

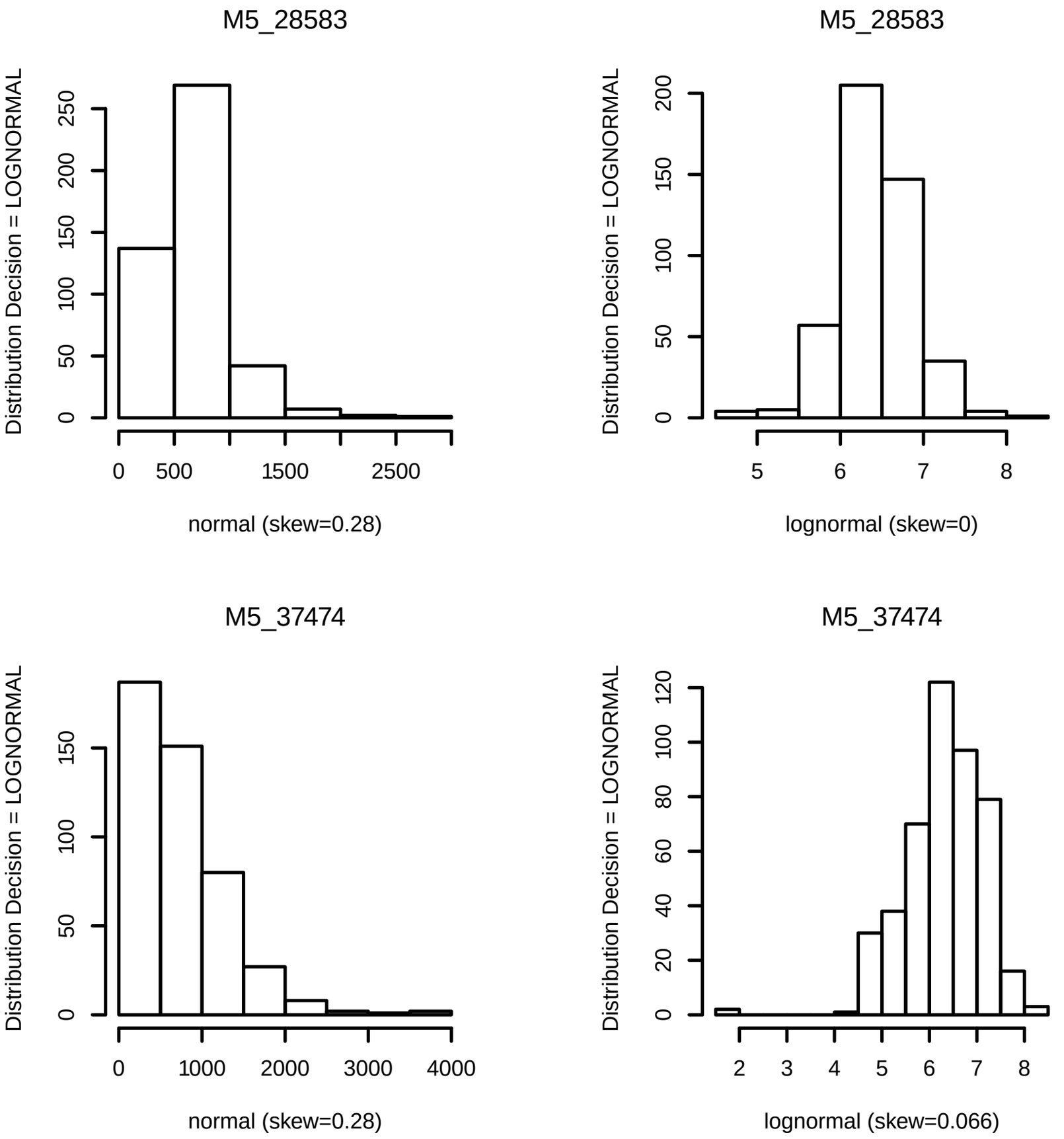

M5_28143
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
5
6
7
8
9
lognormal (skew=0.054)

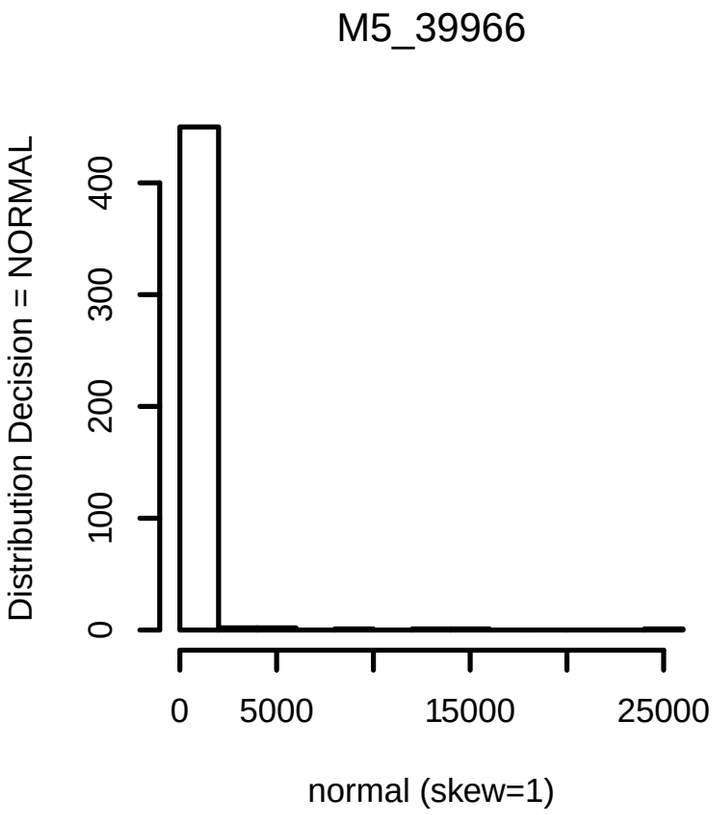

M5_29880
Distribution Decision = NORMAL
0
20
40
60
80
100
0
500
1000
1500
normal (skew=0.086)

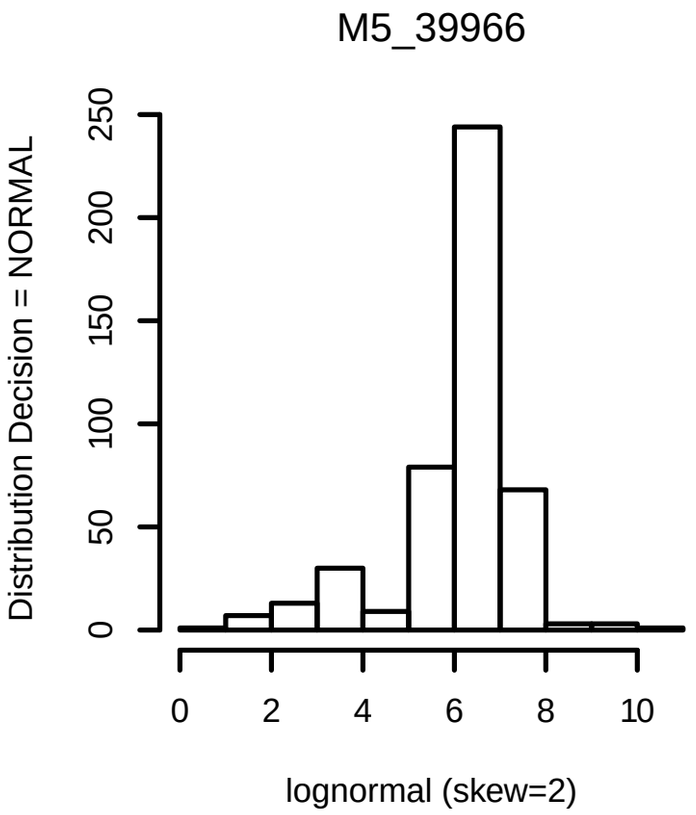

M5_29880
Distribution Decision = NORMAL
0
50
100
150
1
2
3
4
5
6
7
lognormal (skew=0.37)

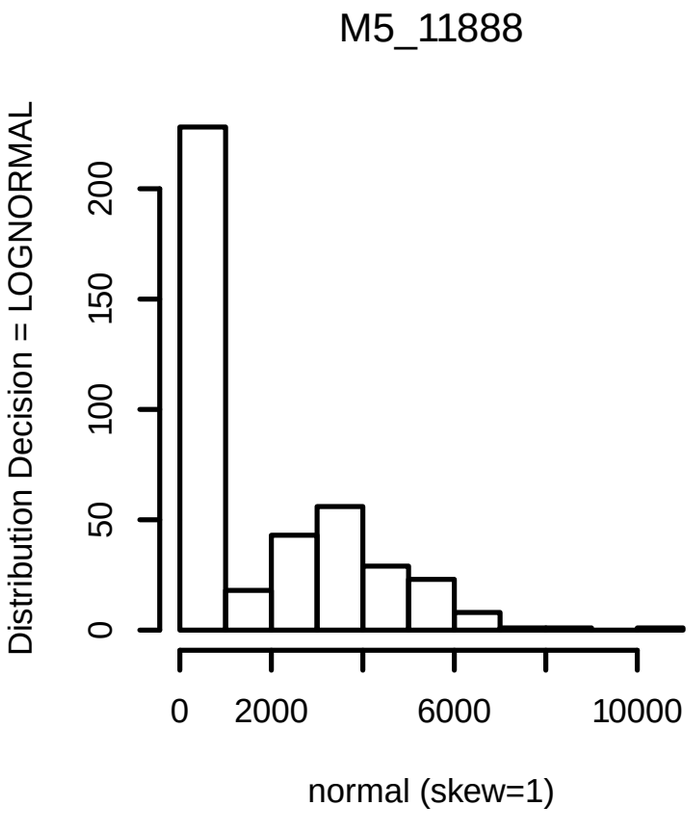

M5_26923
Distribution Decision = LOGNORMAL
0
50
100
150
200
300
0
2000
4000
6000
8000
normal (skew=1)

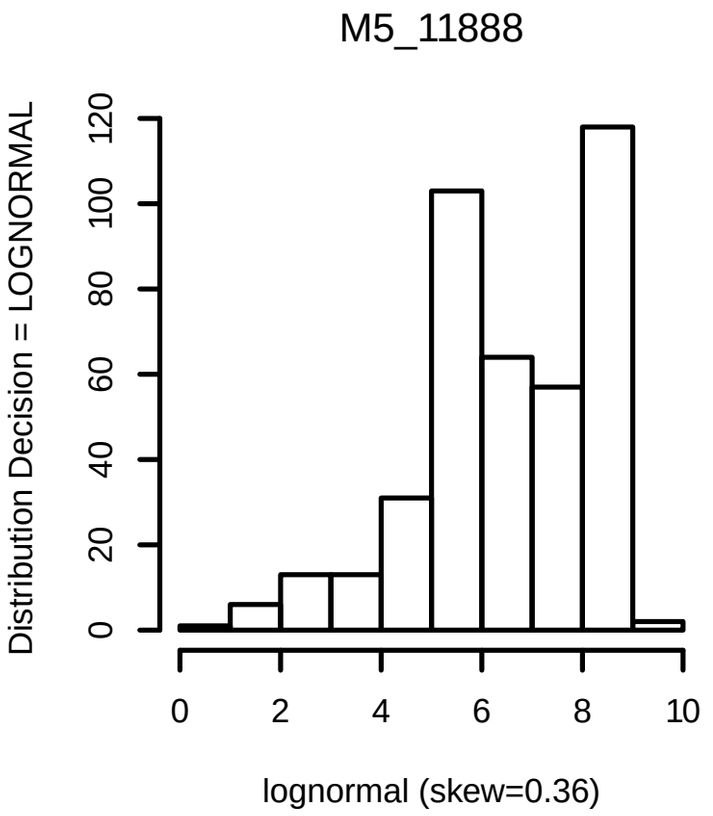

M5_26923
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
2
4
6
8
lognormal (skew=0.14)

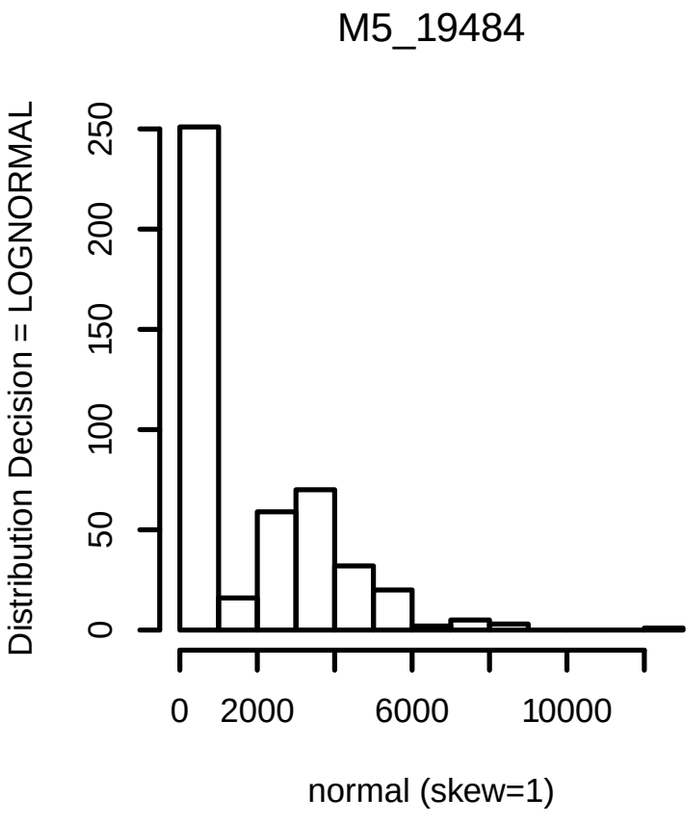

M5_28583
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
500
1500
2500
normal (skew=0.28)
M5_28583
Distribution Decision = LOGNORMAL
0
50
100
150
200
5
6
7
8
lognormal (skew=0)
M5_37474
Distribution Decision = LOGNORMAL
0
50
100
150
0
1000
2000
3000
4000
normal (skew=0.28)
M5_37474
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
2
3
4
5
6
7
8
lognormal (skew=0.066)

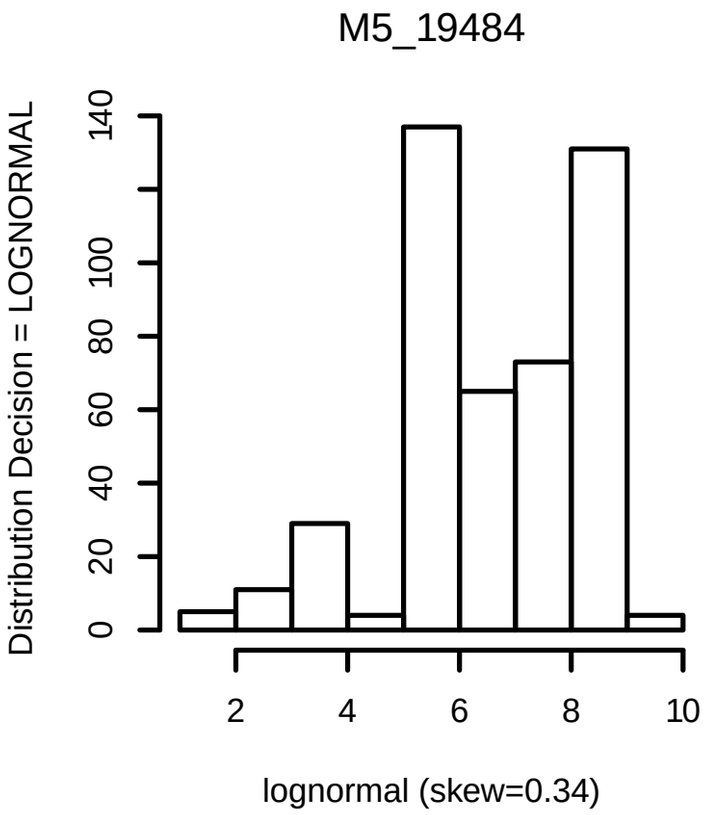

M5_39966
Distribution Decision = NORMAL
0
100
200
300
400
0
5000
15000
25000
normal (skew=1)

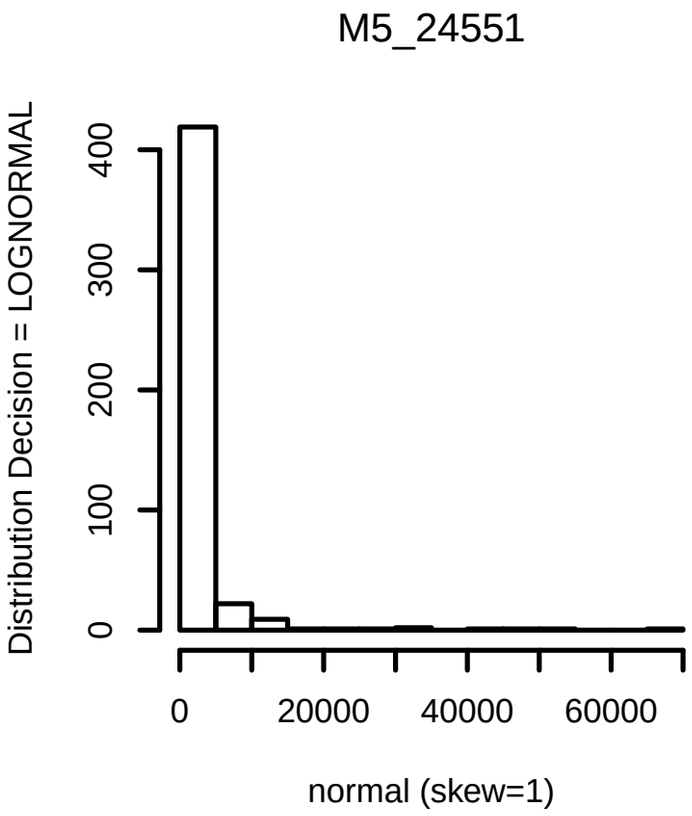

M5_39966
Distribution Decision = NORMAL
0
50
100
150
200
250
0
2
4
6
8
10
lognormal (skew=2)

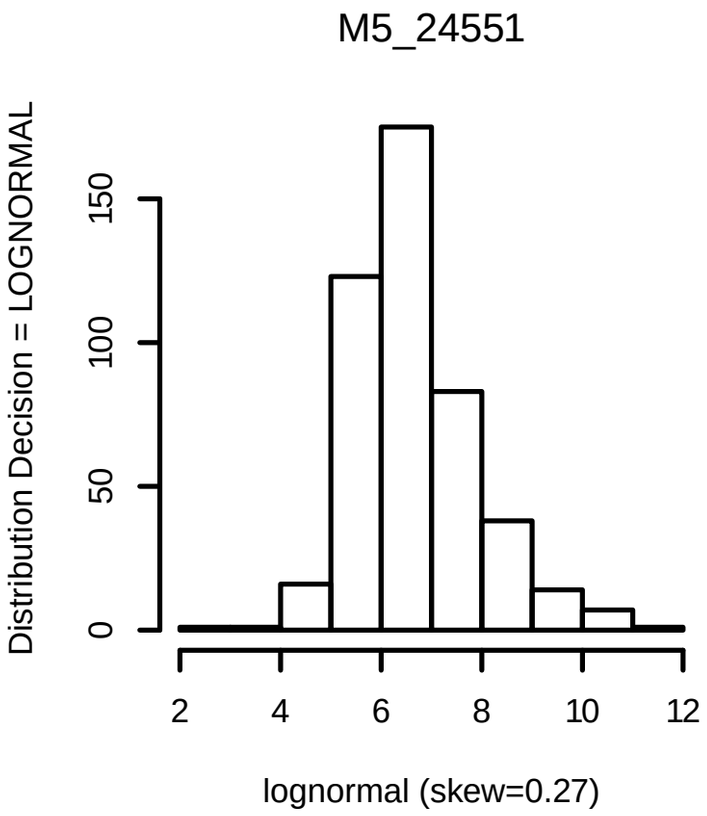

M5_11888
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2000
6000
10000
normal (skew=1)

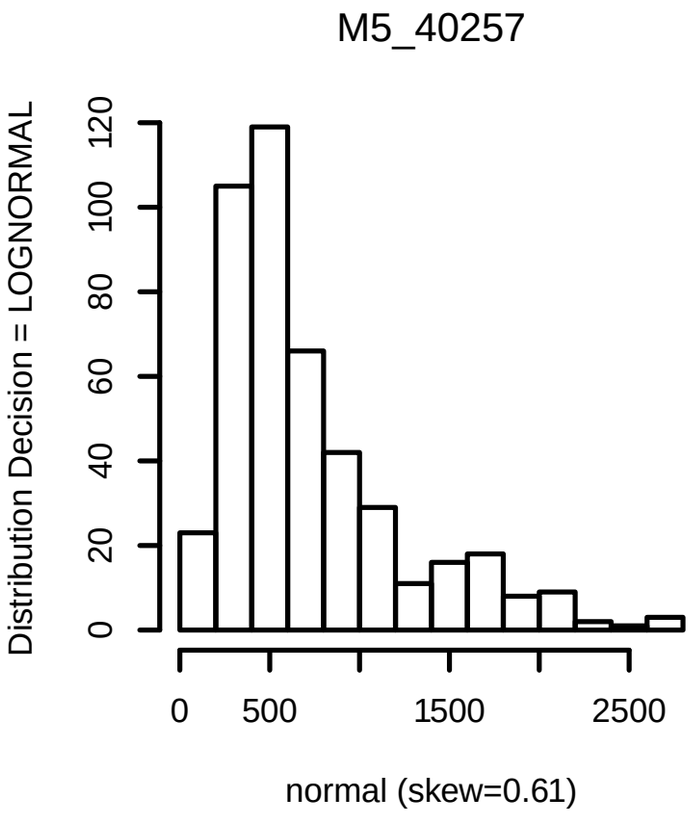

M5_11888
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
2
4
6
8
10
lognormal (skew=0.36)

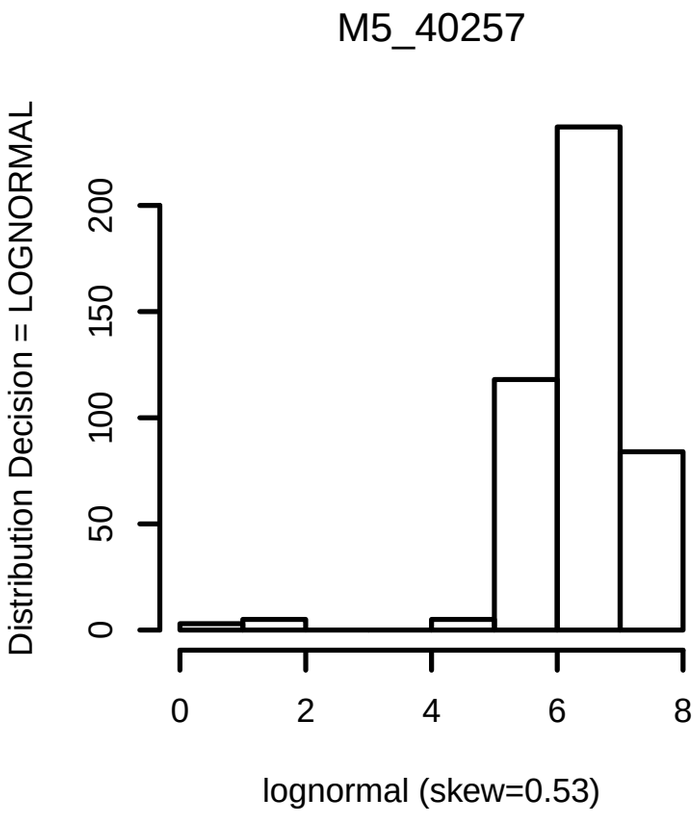

M5_19484
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2000
6000
10000
normal (skew=1)

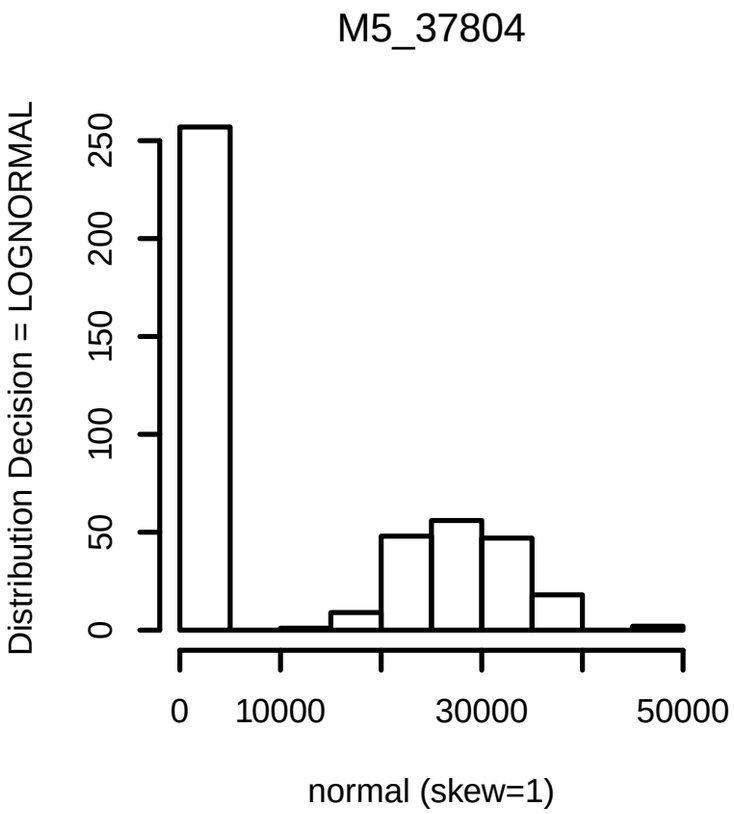

M5_19484
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
2
4
6
8
10
lognormal (skew=0.34)

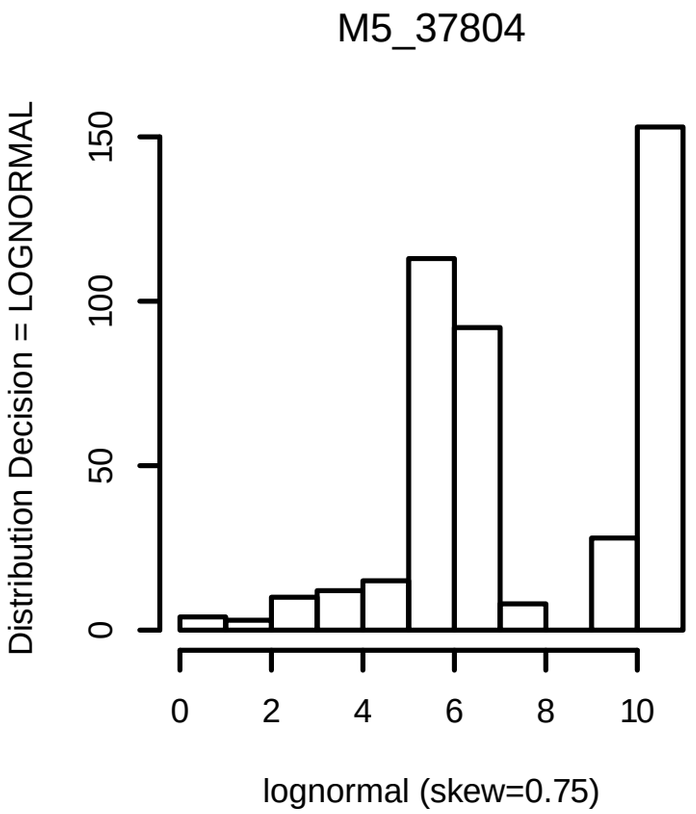

M5_24551
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
20000
40000
60000
normal (skew=1)

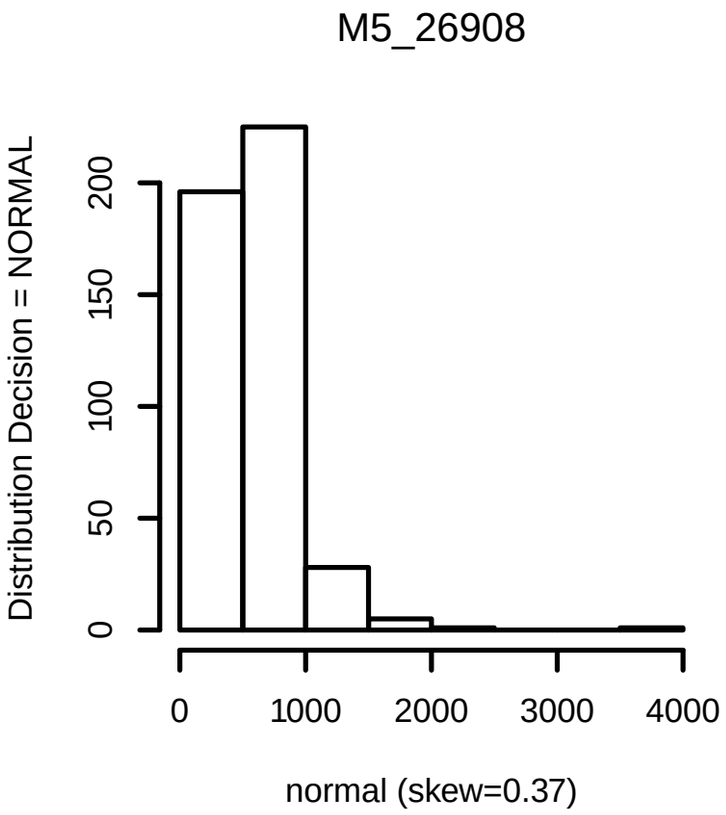

M5_24551
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
12
lognormal (skew=0.27)

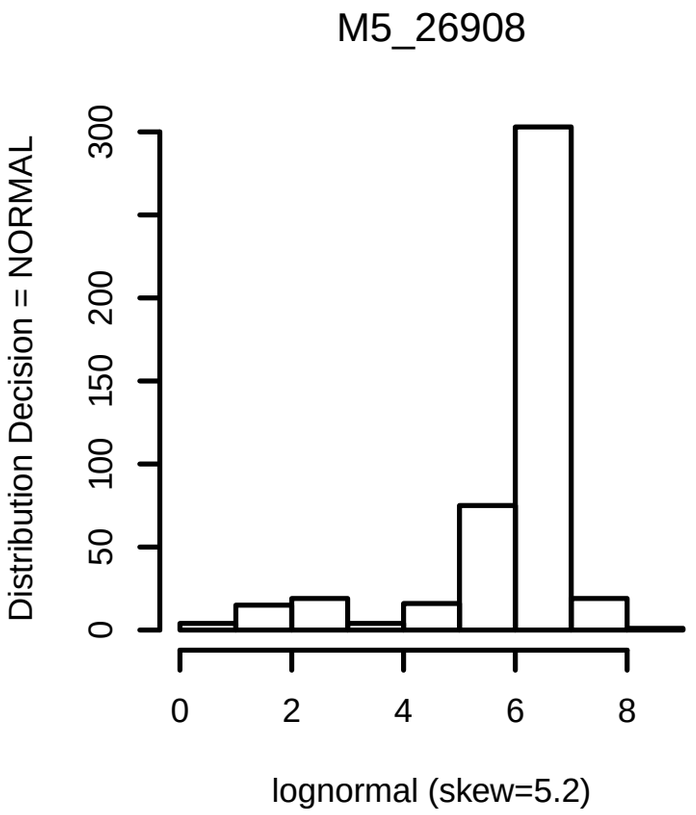

M5_40257
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
500
1500
2500
normal (skew=0.61)

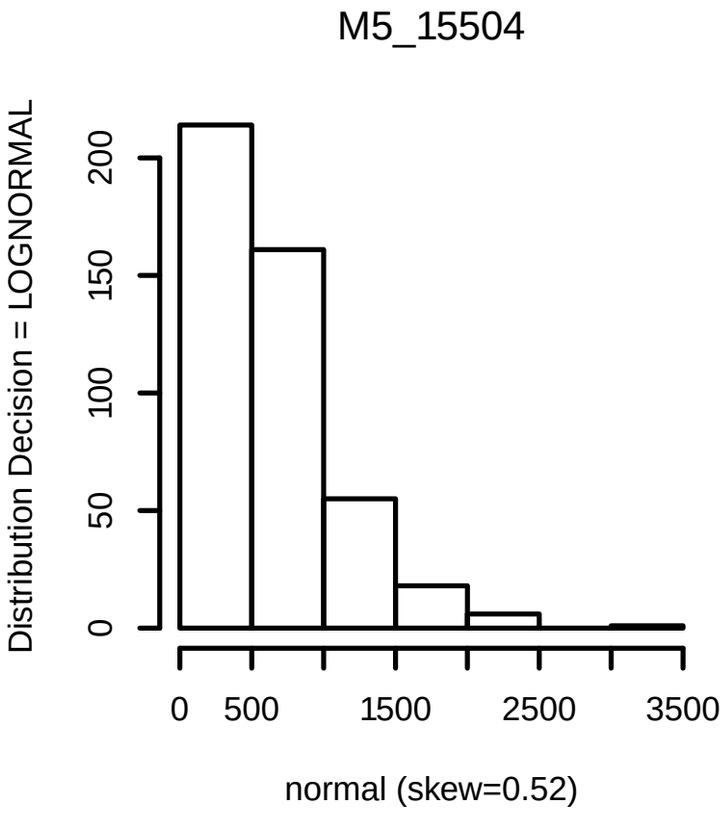

M5_40257
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.53)

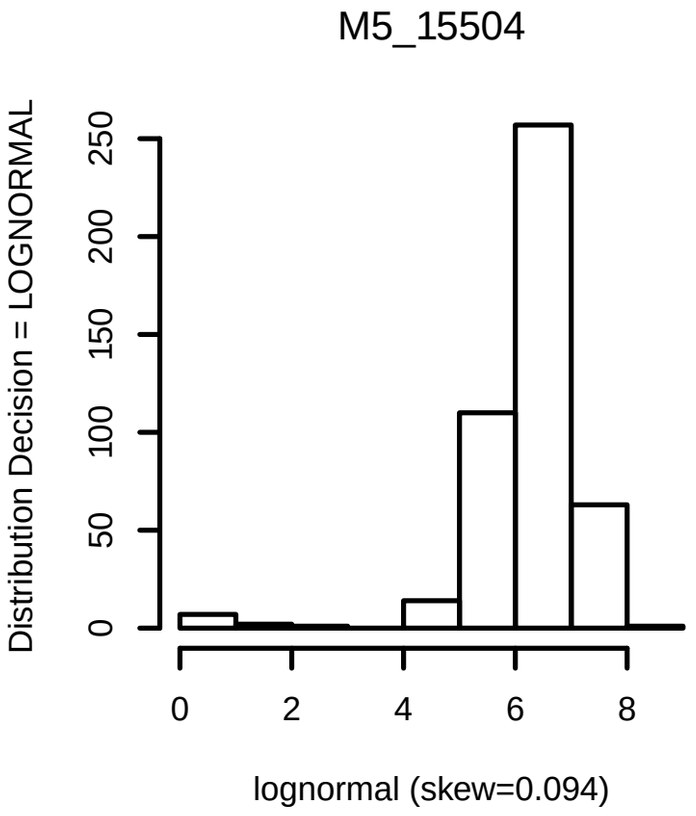

M5_37804
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
10000
30000
50000
normal (skew=1)

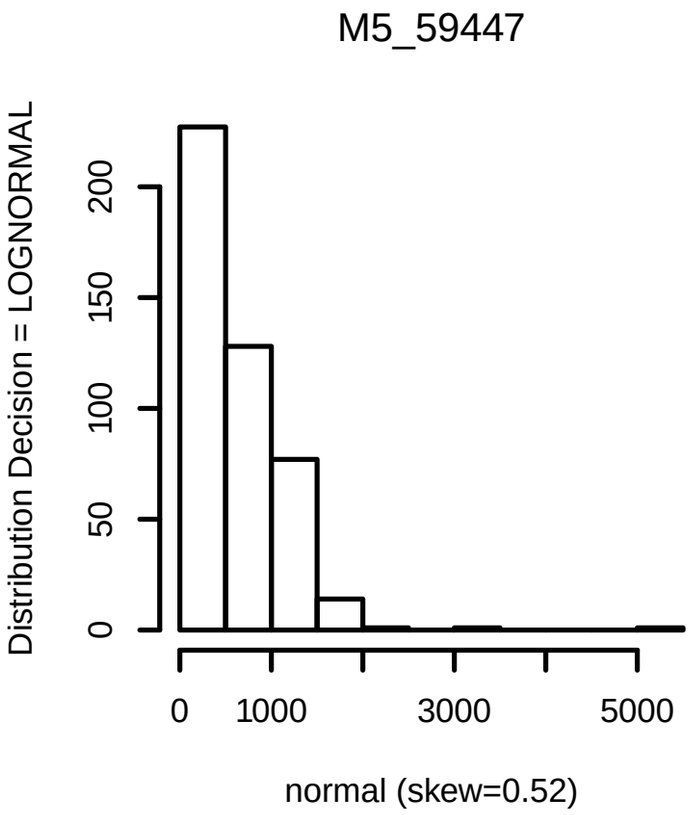

M5_37804
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
lognormal (skew=0.75)

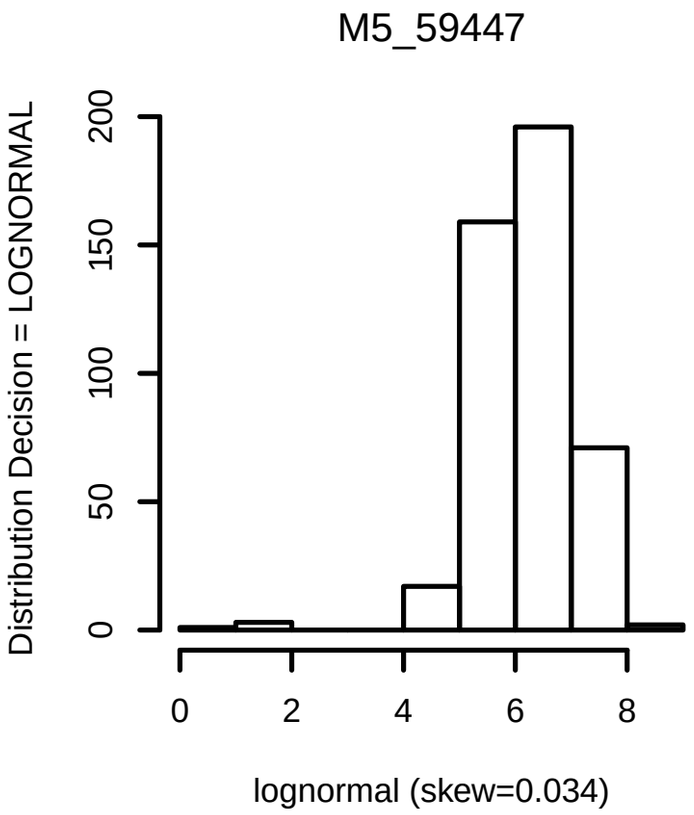

M5_26908
Distribution Decision = NORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.37)

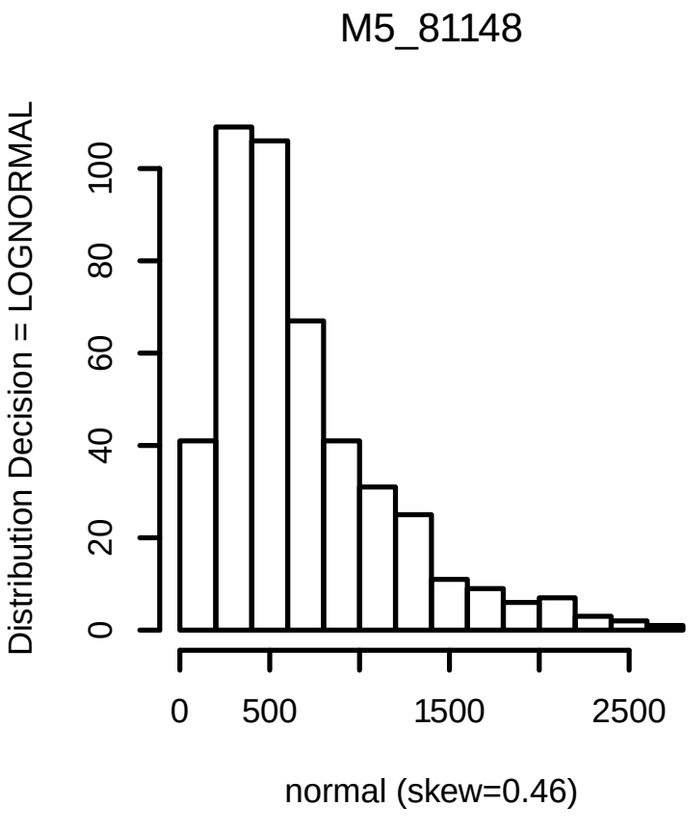

M5_26908
Distribution Decision = NORMAL
0
50
100
150
200
300
0
2
4
6
8
lognormal (skew=5.2)

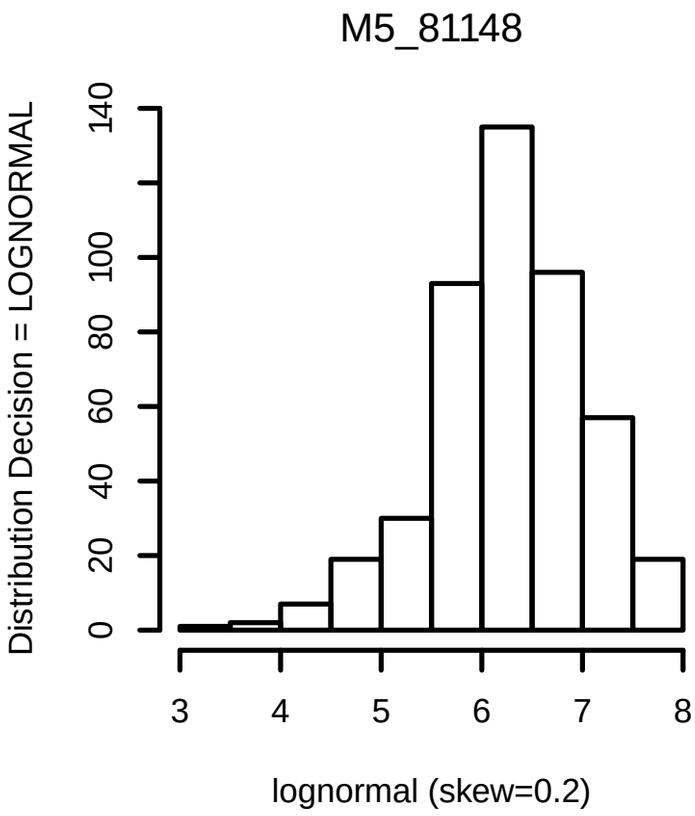

M5_15504
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1500
2500
3500
normal (skew=0.52)

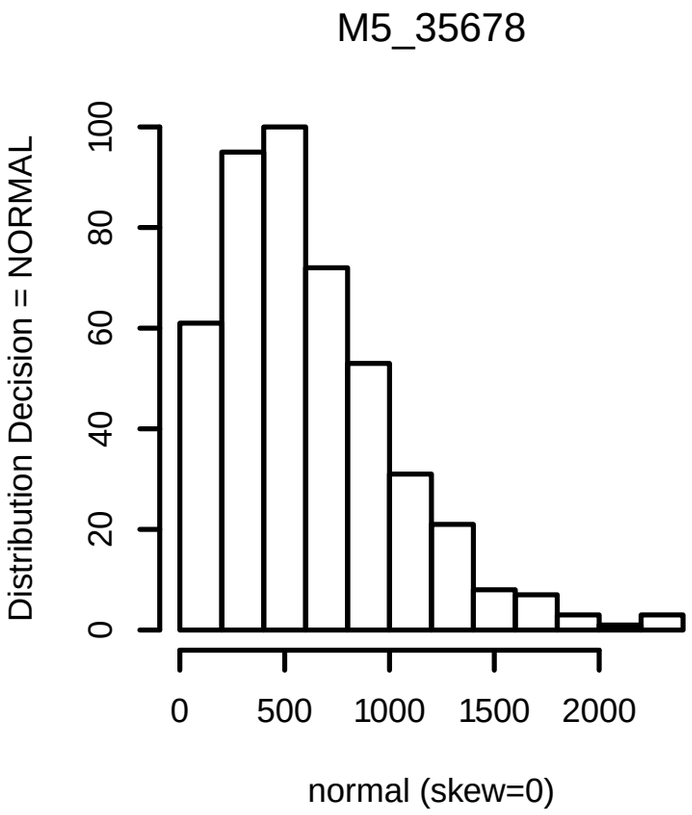

M5_15504
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.094)

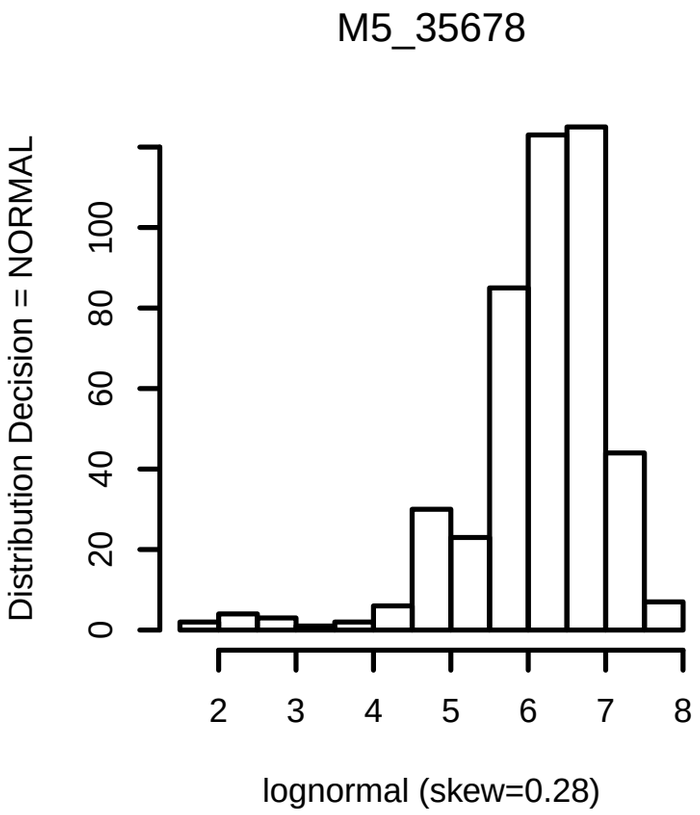

M5_59447
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
3000
5000
normal (skew=0.52)

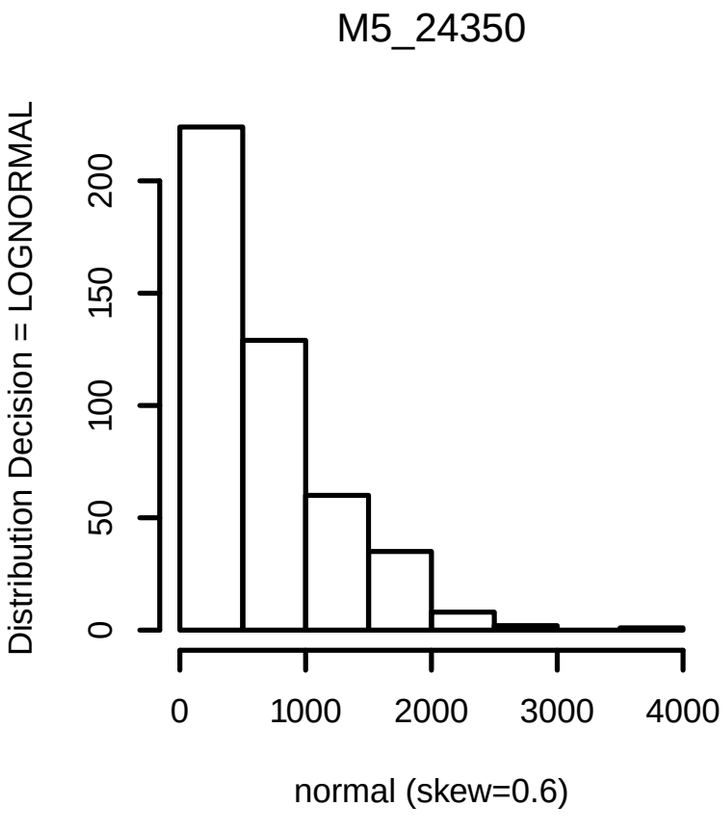

M5_59447
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.034)

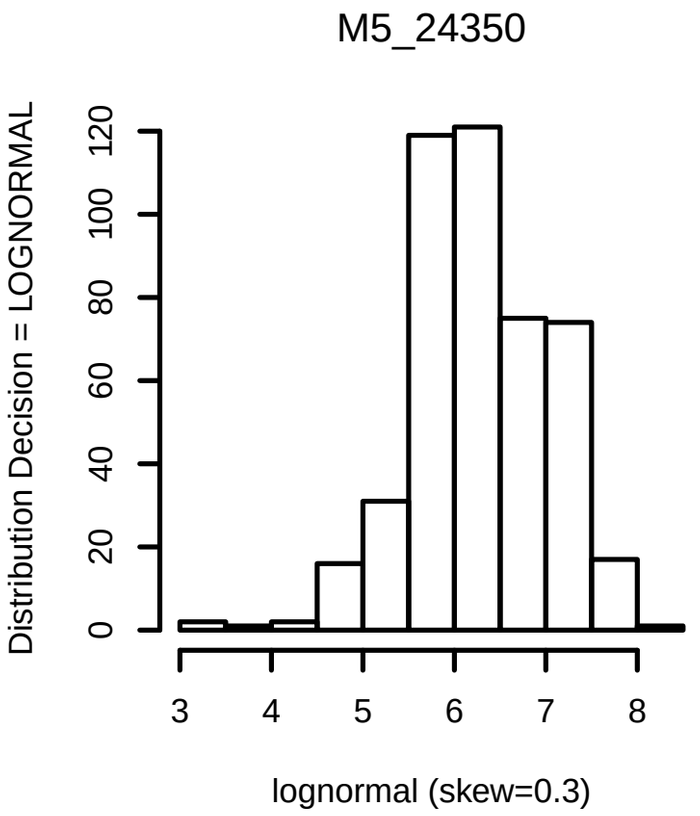

M5_81148
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
500
1500
2500
normal (skew=0.46)

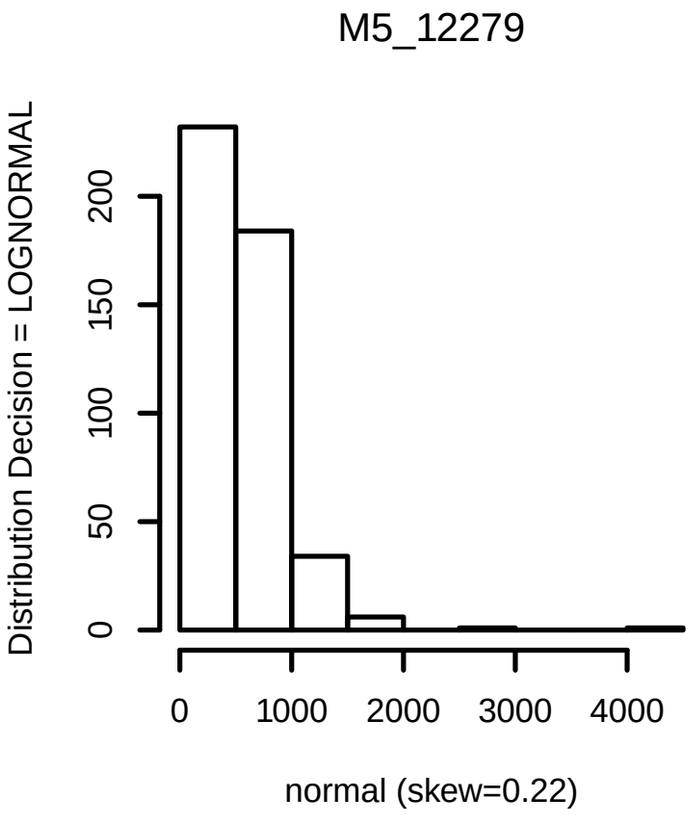

M5_81148
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
3
4
5
6
7
8
lognormal (skew=0.2)

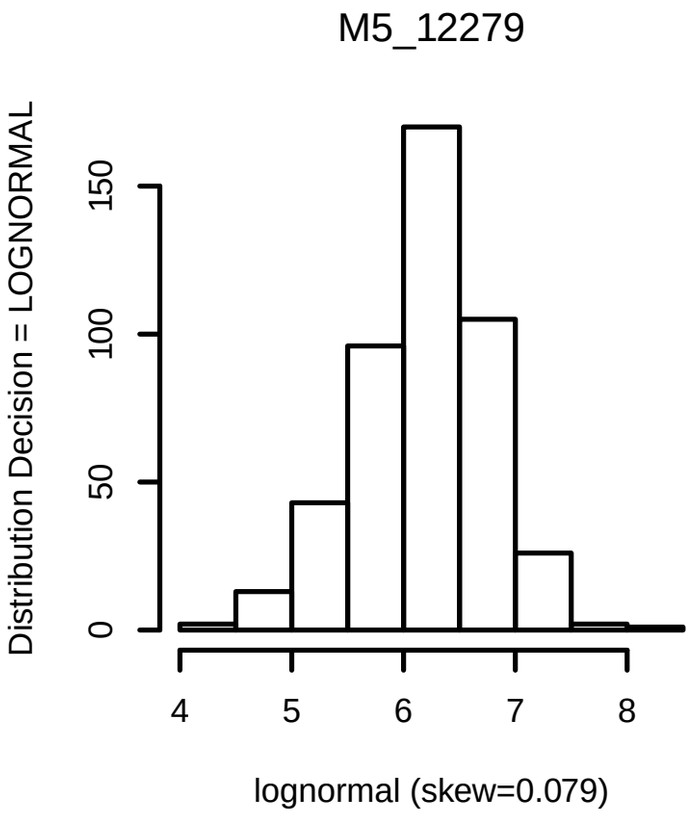

M5_35678
Distribution Decision = NORMAL
0
20
40
60
80
100
0
500
1000
1500
2000
normal (skew=0)

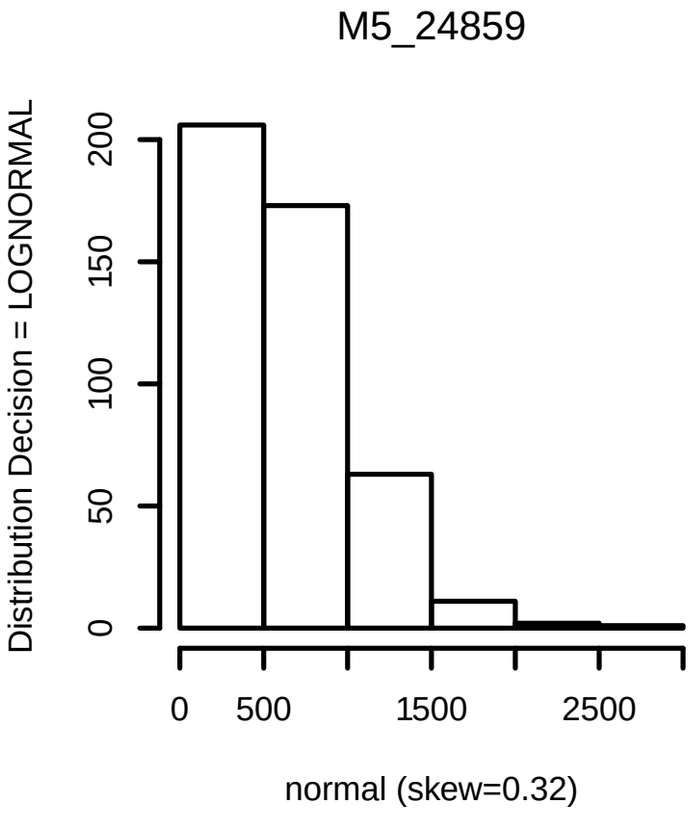

M5_35678
Distribution Decision = NORMAL
0
20
40
60
80
100
2
3
4
5
6
7
8
lognormal (skew=0.28)

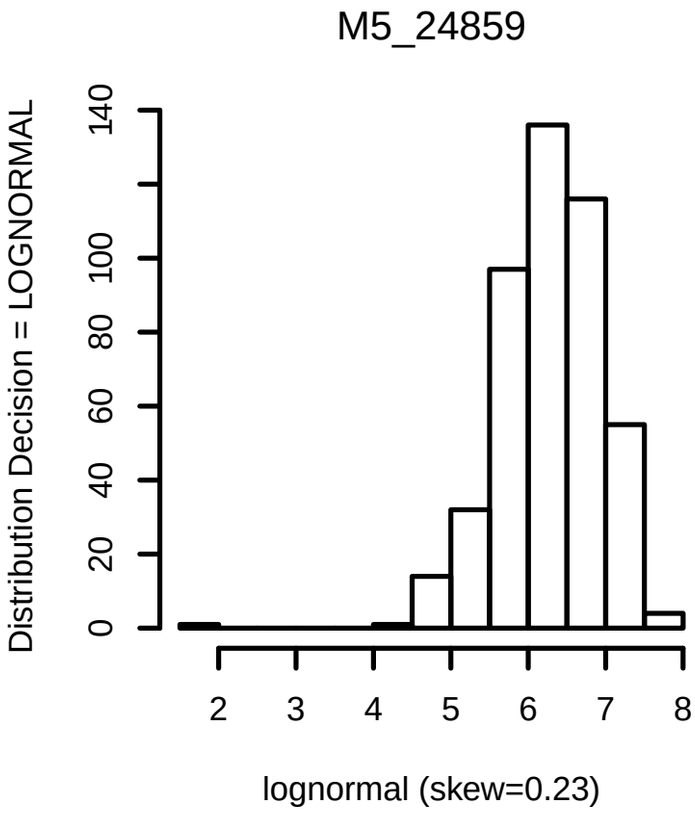

M5_24350
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.6)

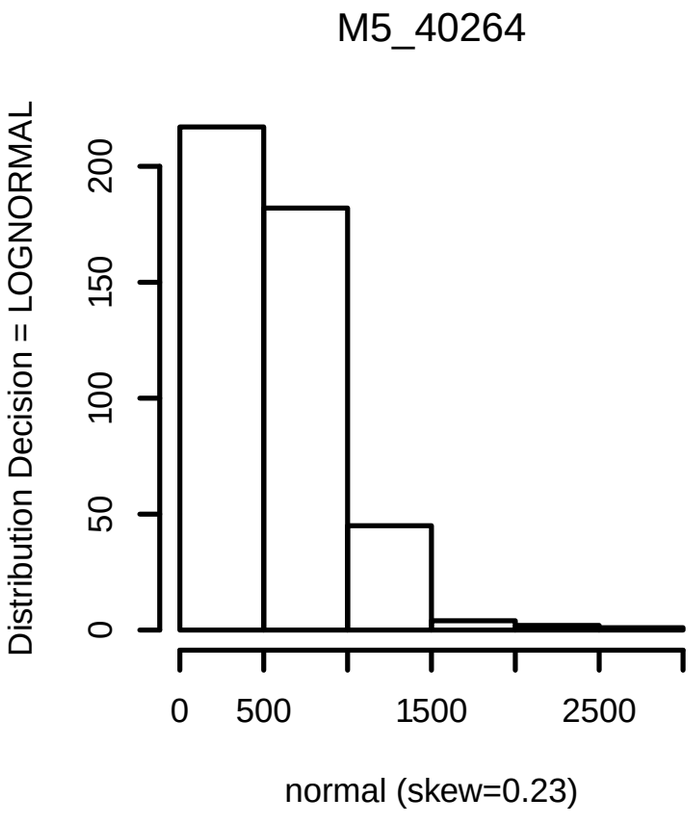

M5_24350
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
3
4
5
6
7
8
lognormal (skew=0.3)

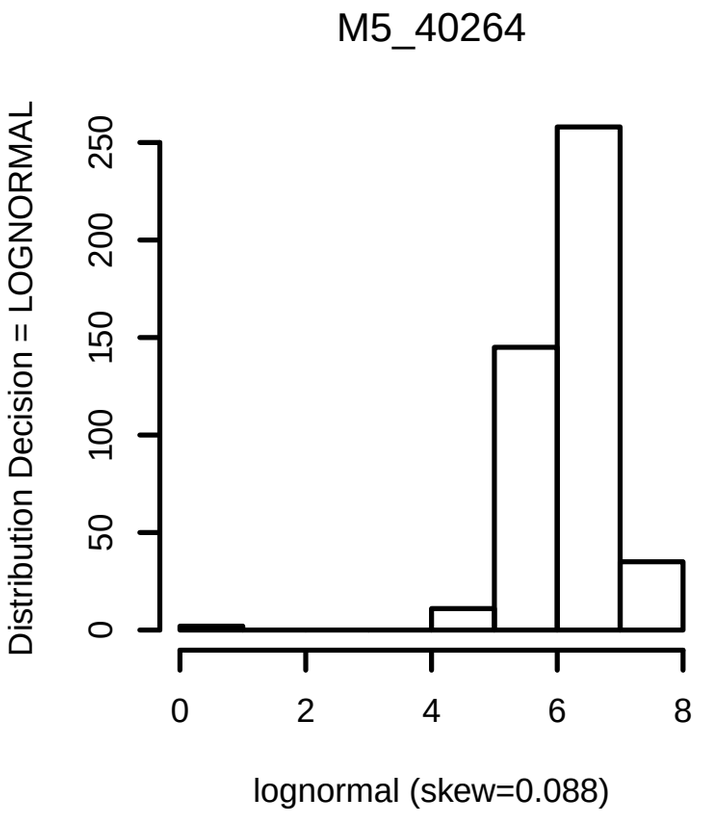

M5_12279
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.22)

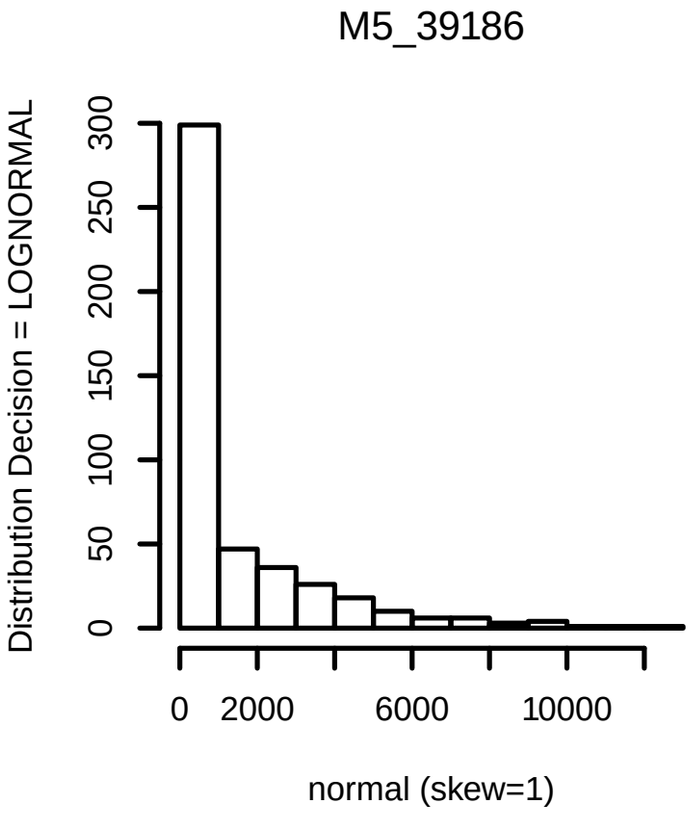

M5_12279
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.079)

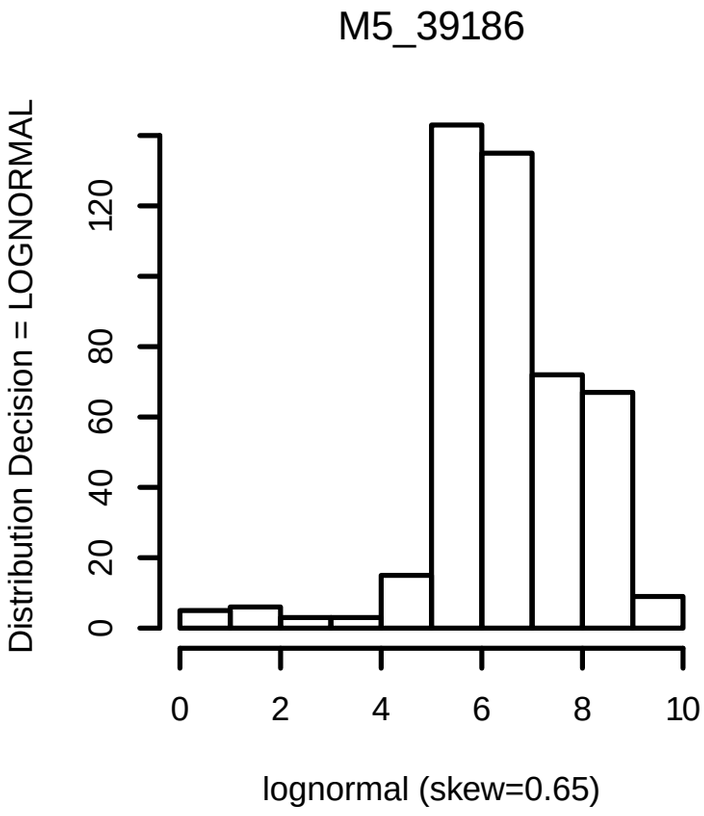

M5_24859
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1500
2500
normal (skew=0.32)

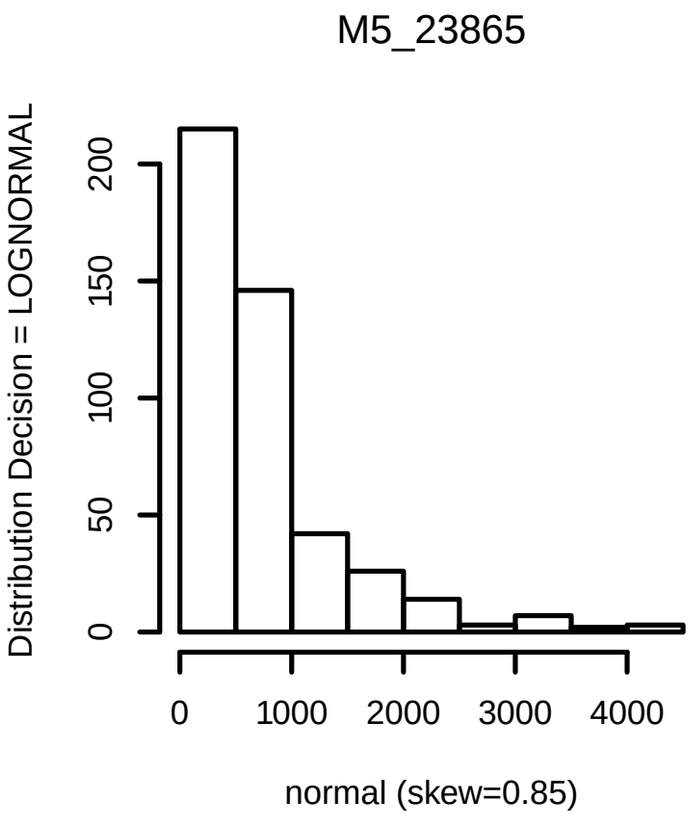

M5_24859
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
140
2
3
4
5
6
7
8
lognormal (skew=0.23)

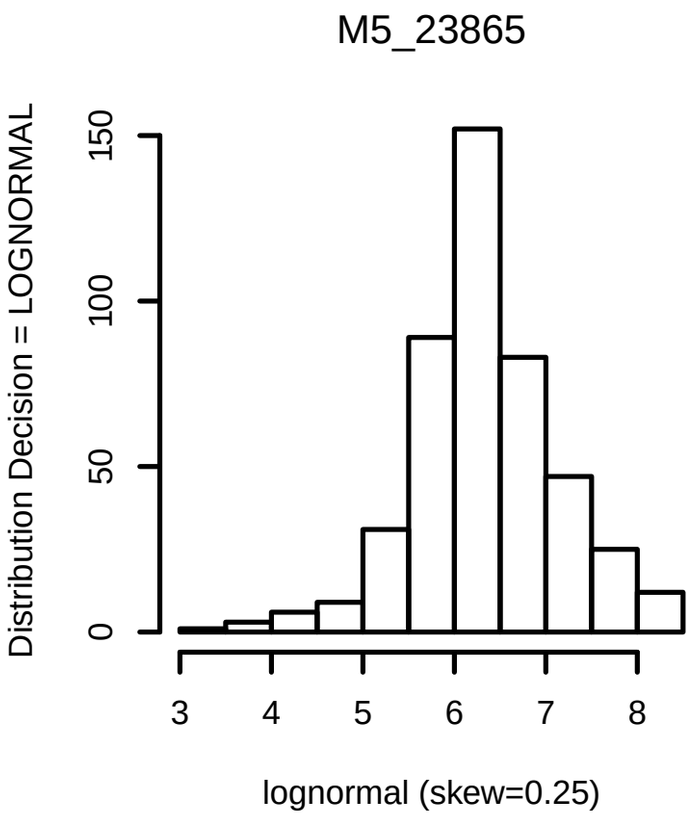

M5_40264
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1500
2500
normal (skew=0.23)

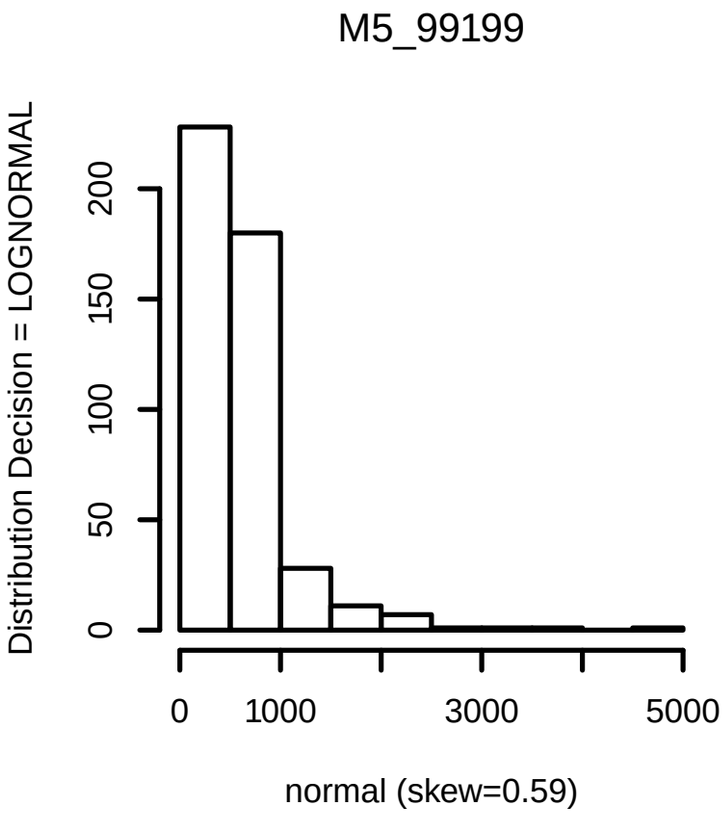

M5_40264
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.088)

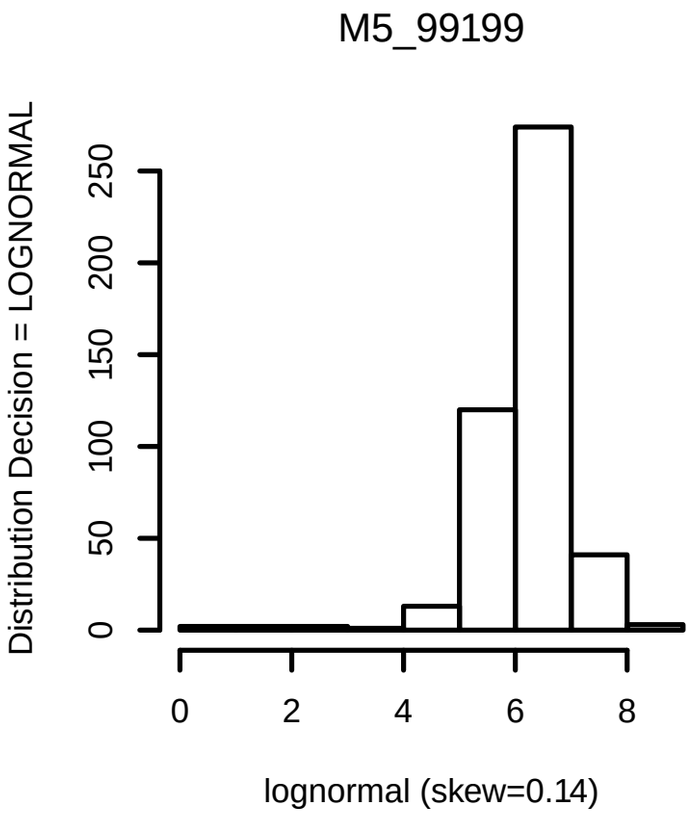

M5_39186
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
2000
6000
10000
normal (skew=1)

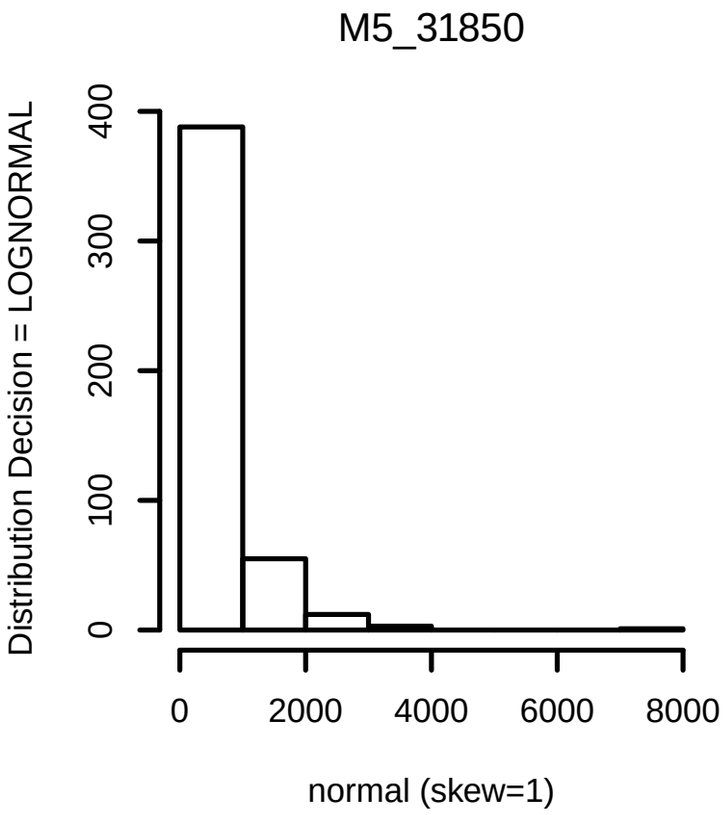

M5_39186
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
2
4
6
8
10
lognormal (skew=0.65)

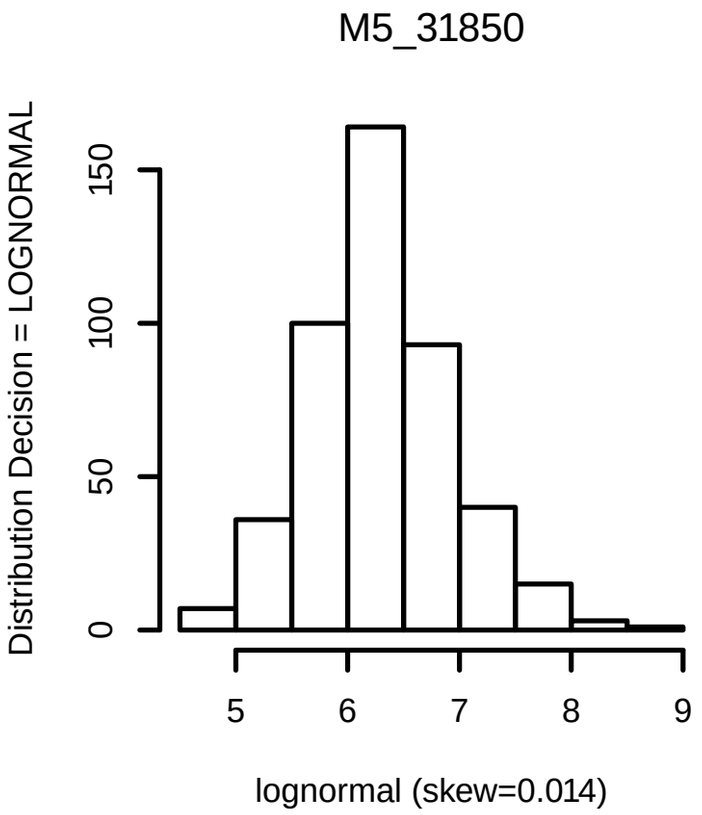

M5_23865
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.85)

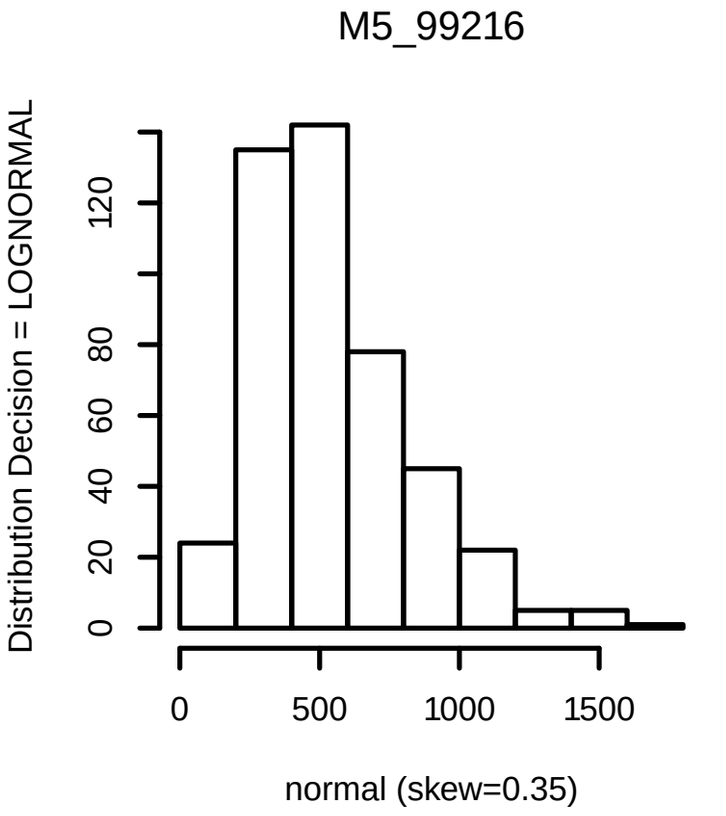

M5_23865
Distribution Decision = LOGNORMAL
0
50
100
150
3
4
5
6
7
8
lognormal (skew=0.25)

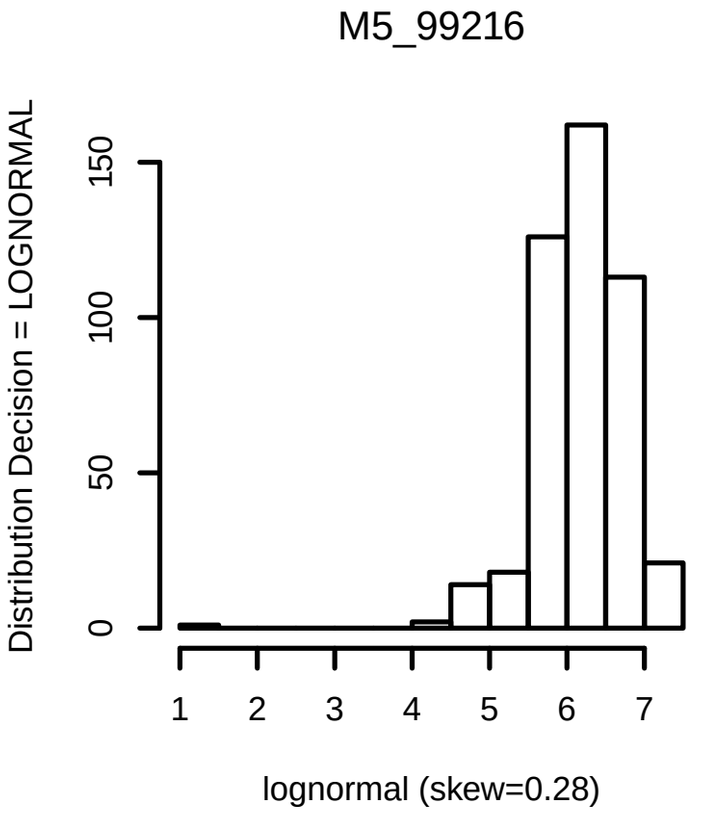

M5_99199
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
3000
5000
normal (skew=0.59)

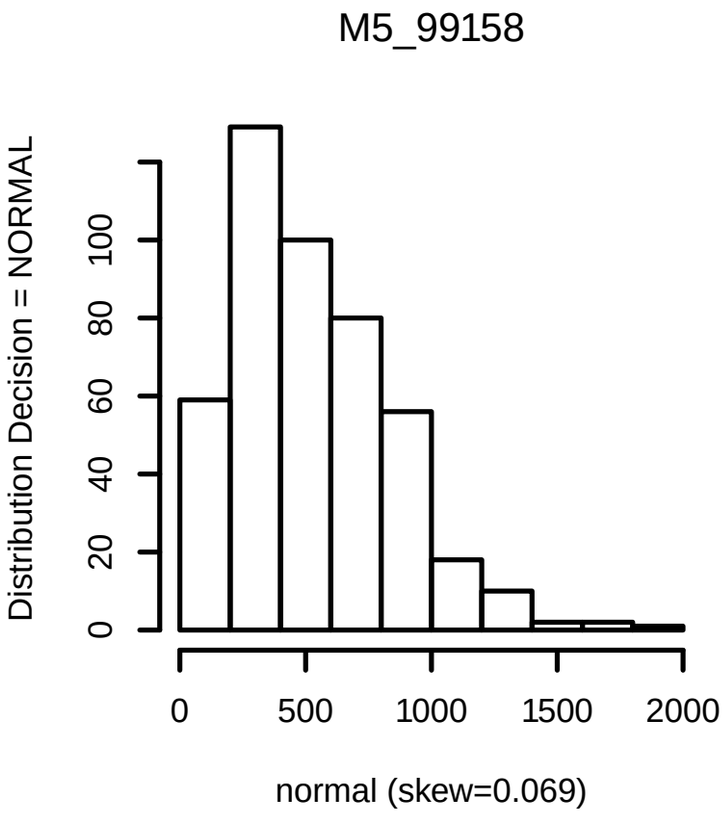

M5_99199
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.14)

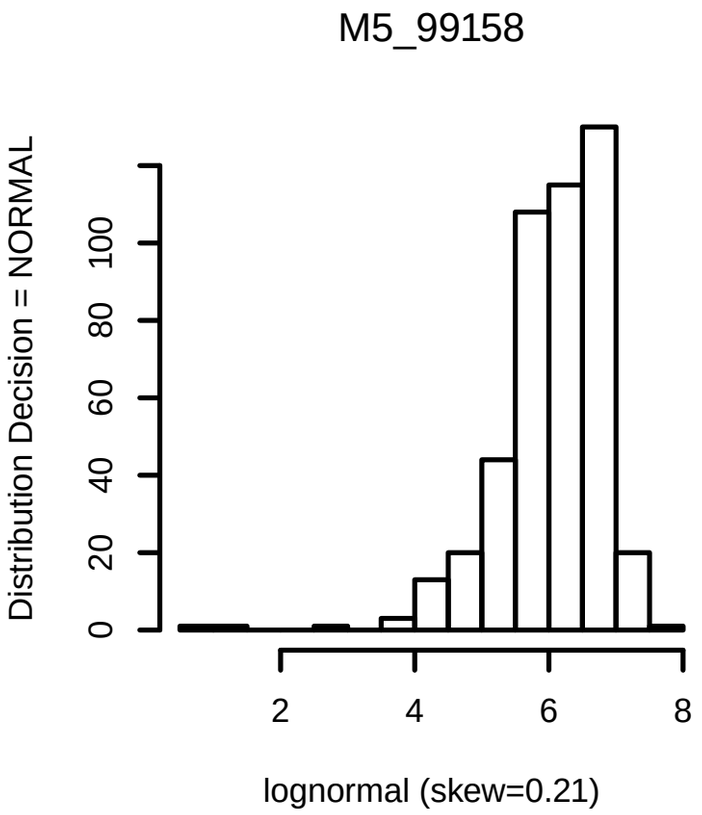

M5_31850
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
2000
4000
6000
8000
normal (skew=1)

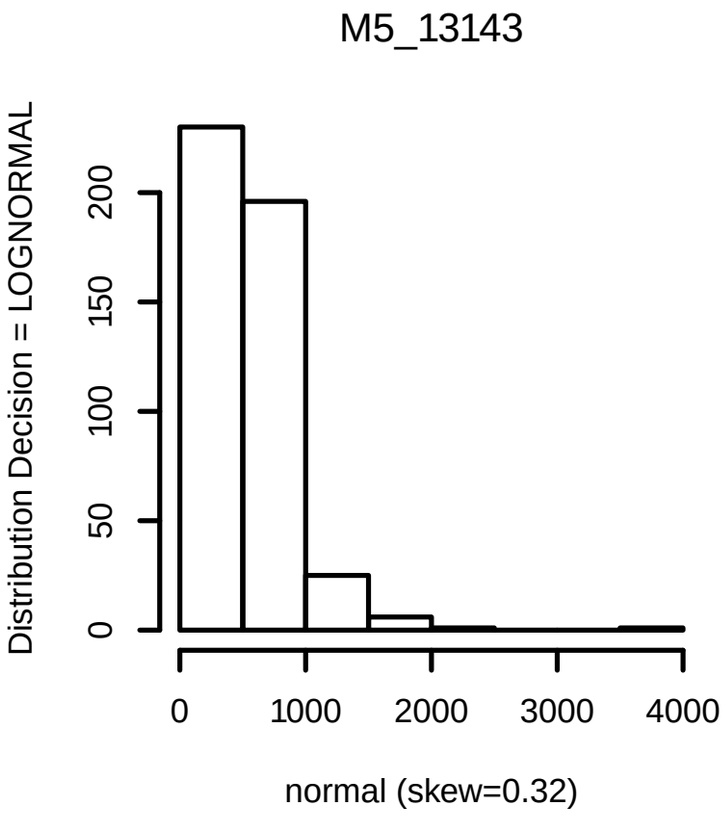

M5_31850
Distribution Decision = LOGNORMAL
0
50
100
150
5
6
7
8
9
lognormal (skew=0.014)

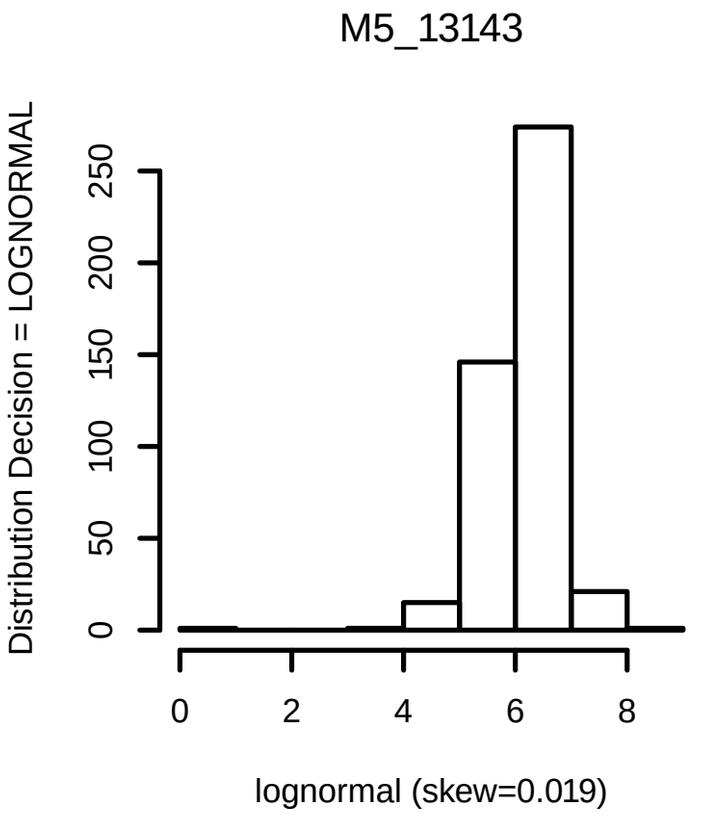

M5_99216
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
500
1000
1500
normal (skew=0.35)

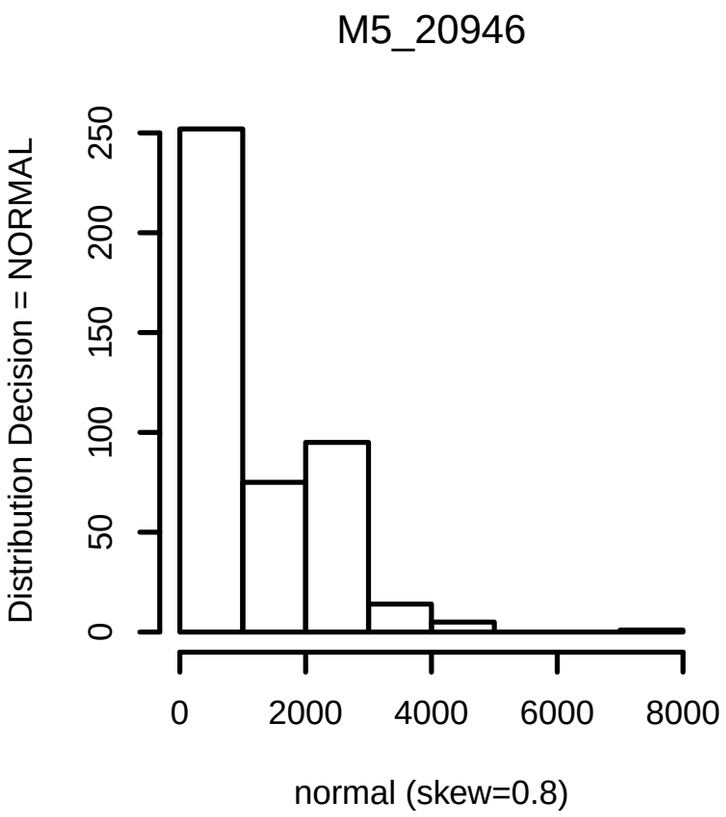

M5_99216
Distribution Decision = LOGNORMAL
0
50
100
150
1
2
3
4
5
6
7
lognormal (skew=0.28)

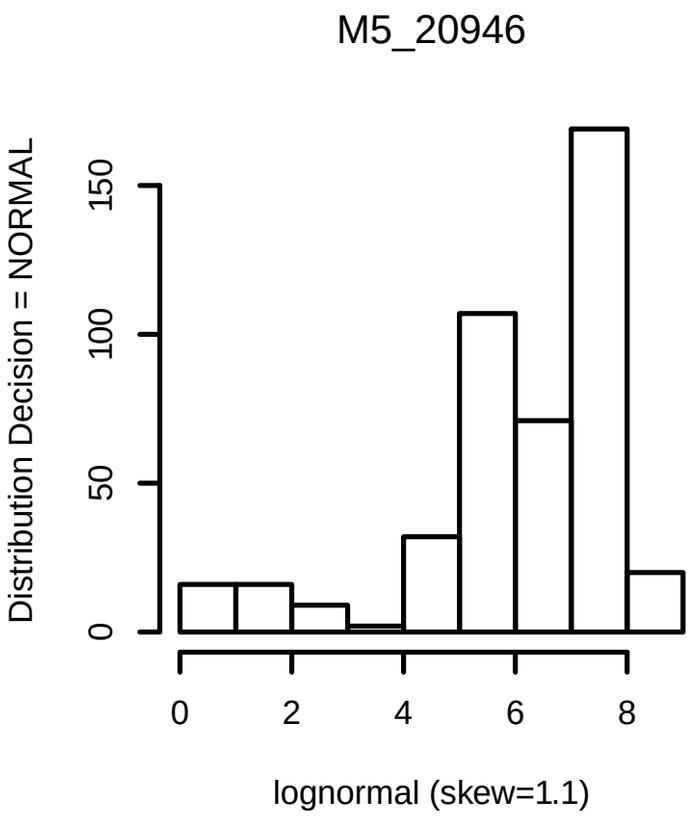

M5_99158
Distribution Decision = NORMAL
0
20
40
60
80
100
0
500
1000
1500
2000
normal (skew=0.069)

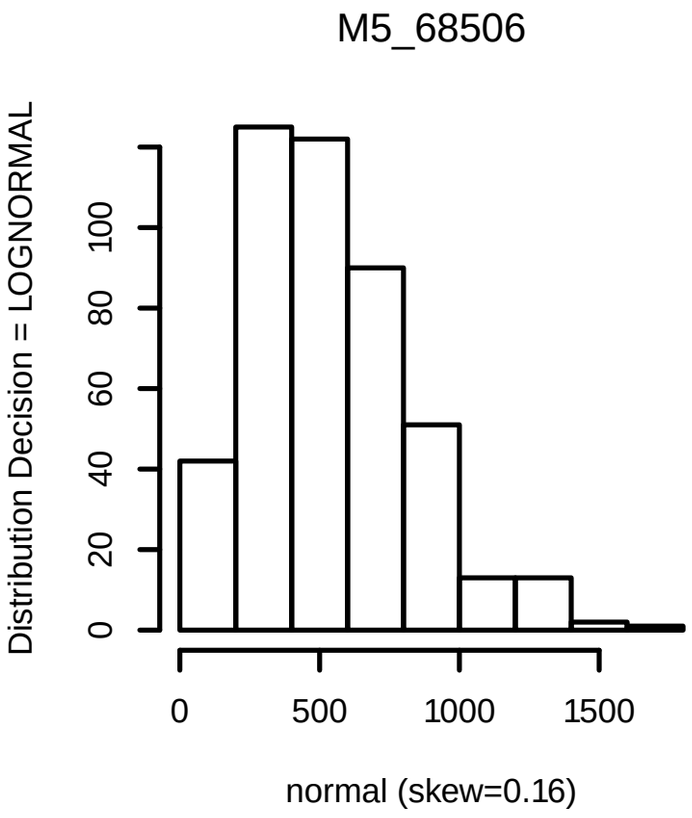

M5_99158
Distribution Decision = NORMAL
0
20
40
60
80
100
2
4
6
8
lognormal (skew=0.21)

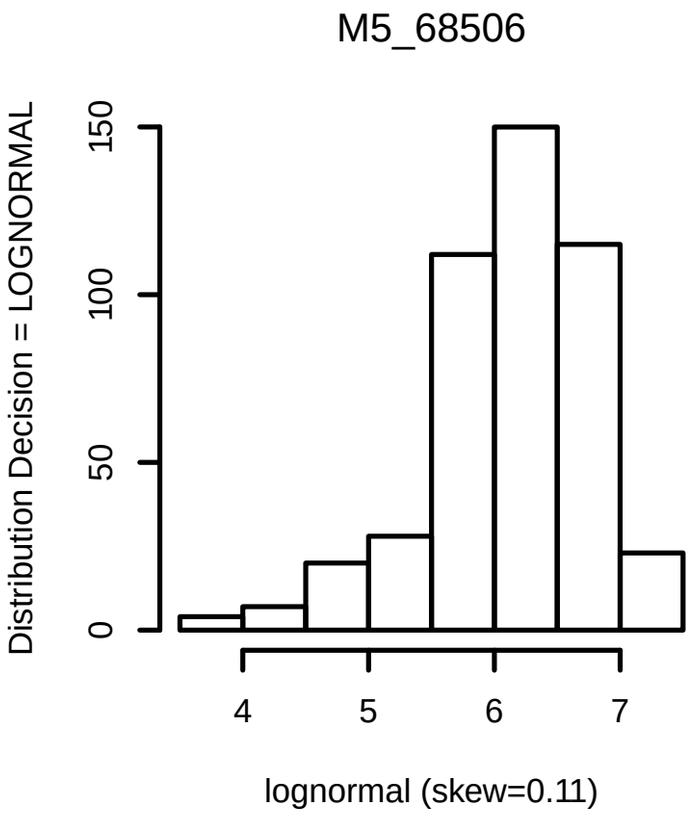

M5_13143
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.32)

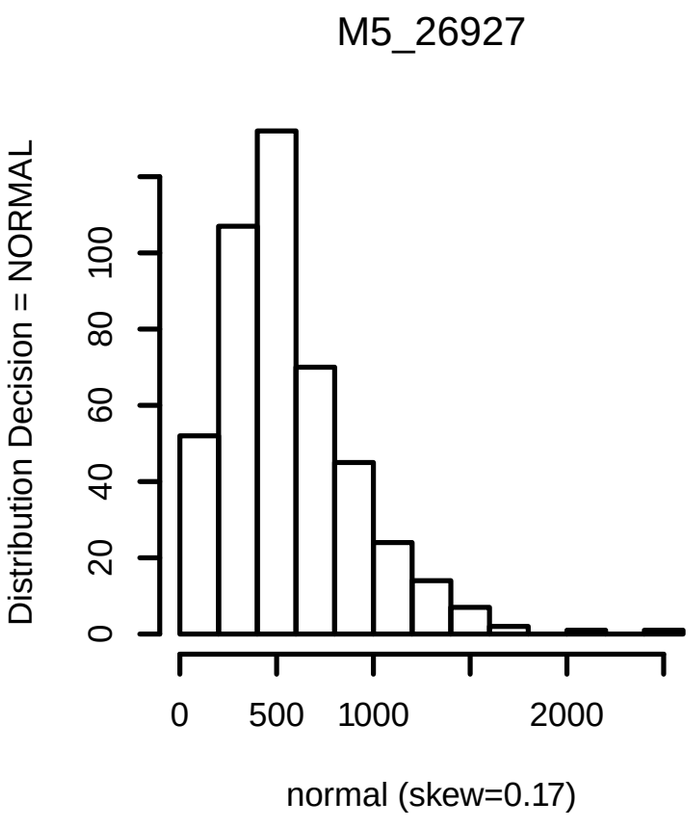

M5_13143
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.019)

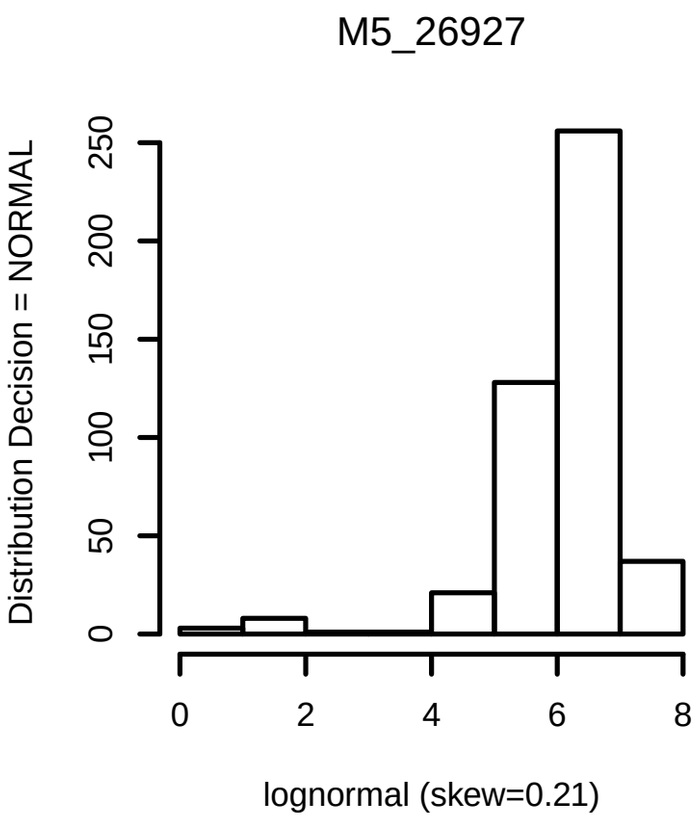

M5_20946
Distribution Decision = NORMAL
0
50
100
150
200
250
0
2000
4000
6000
8000
normal (skew=0.8)

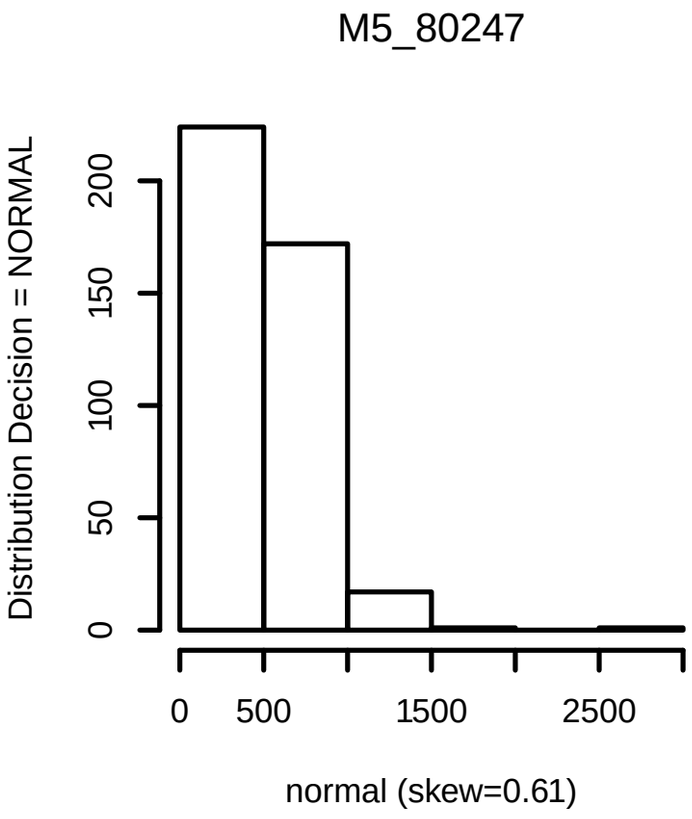

M5_20946
Distribution Decision = NORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=1.1)

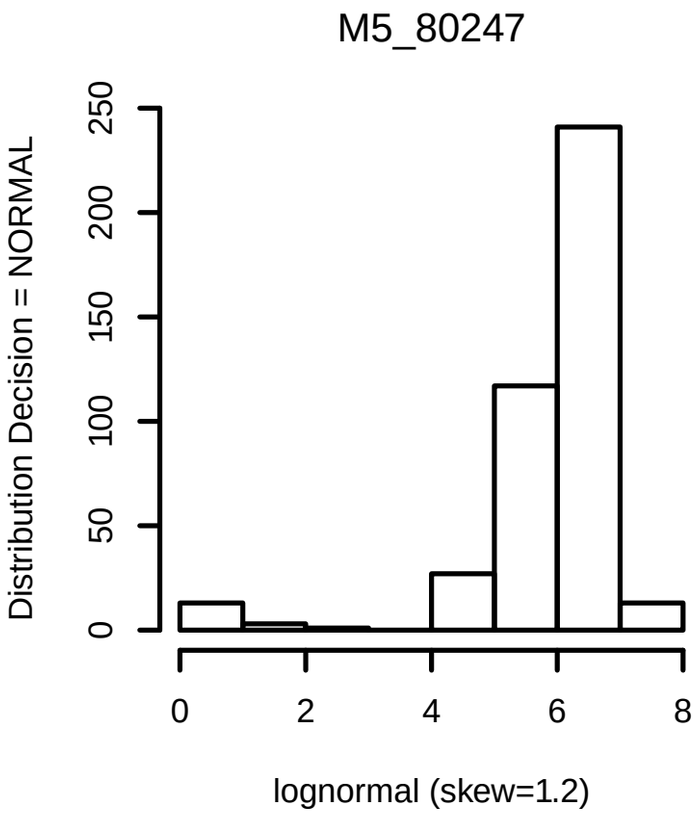

M5_68506
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
500
1000
1500
normal (skew=0.16)

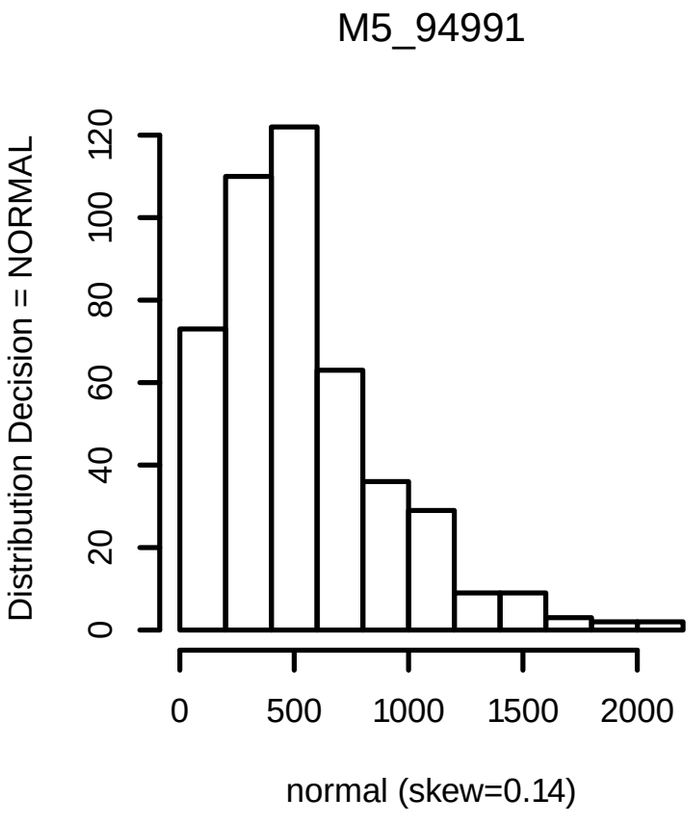

M5_68506
Distribution Decision = LOGNORMAL
0
50
100
150
4
5
6
7
lognormal (skew=0.11)

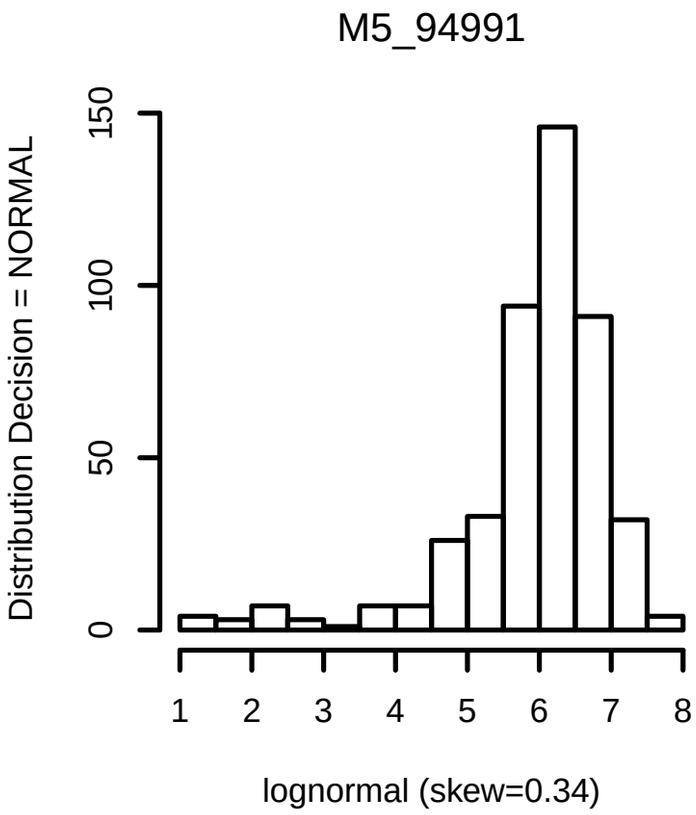

M5_26927
Distribution Decision = NORMAL
0
20
40
60
80
100
0
500
1000
2000
normal (skew=0.17)

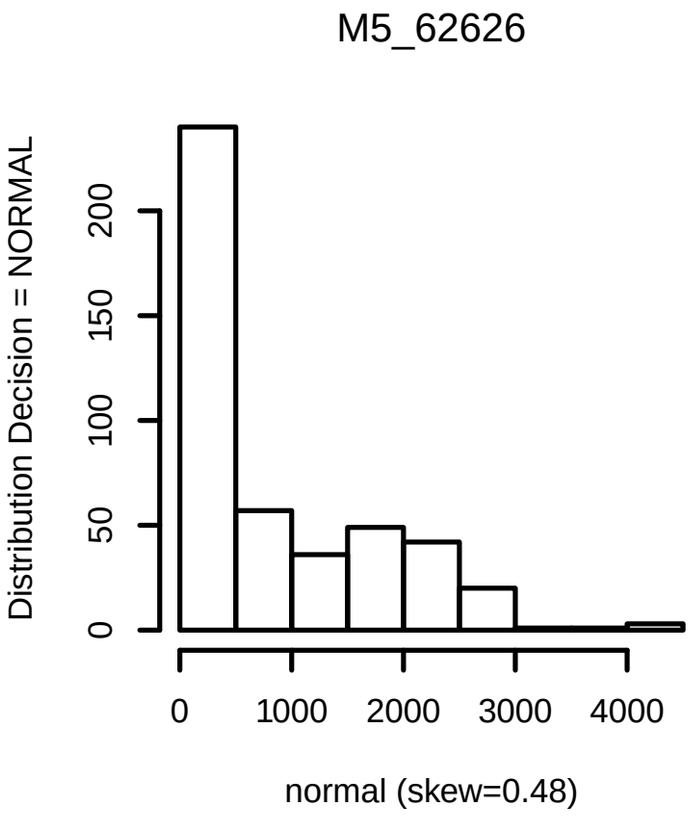

M5_26927
Distribution Decision = NORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.21)

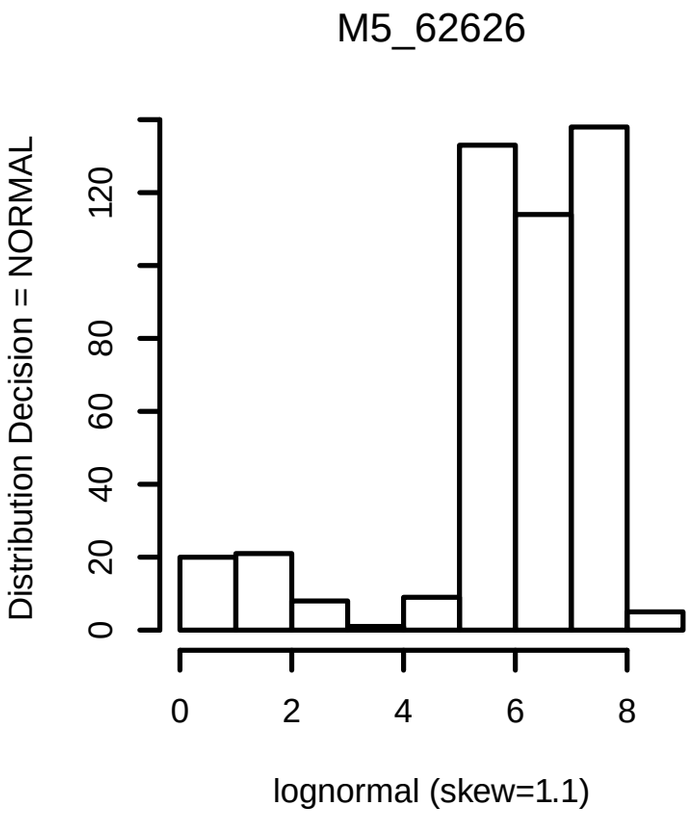

M5_80247
Distribution Decision = NORMAL
0
50
100
150
200
0
500
1500
2500
normal (skew=0.61)

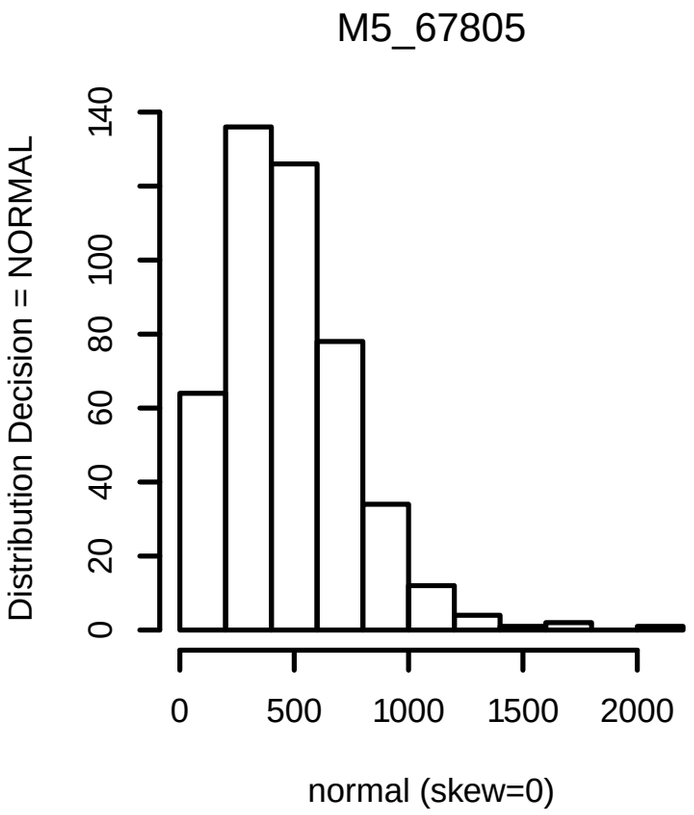

M5_80247
Distribution Decision = NORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=1.2)

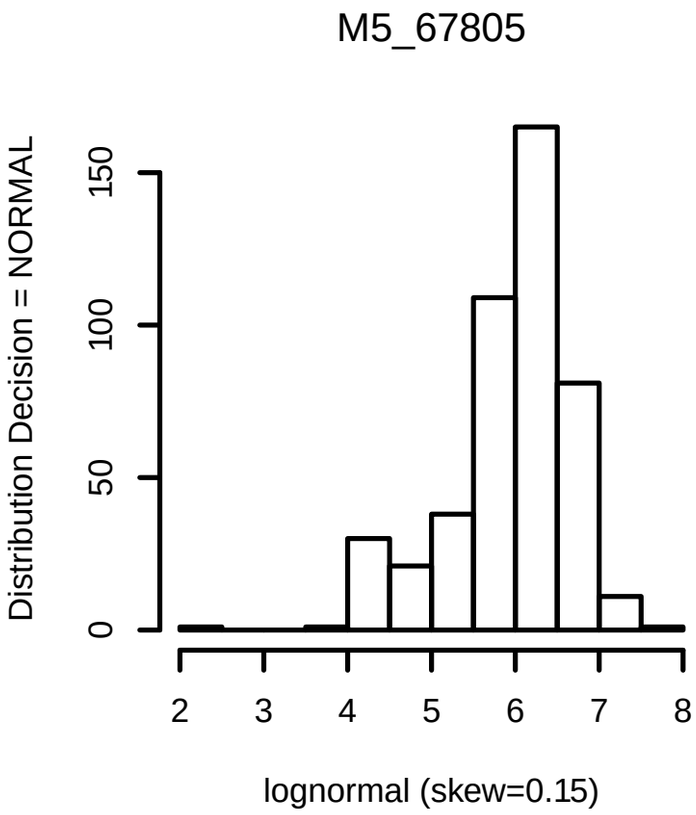

M5_94991
Distribution Decision = NORMAL
0
20
40
60
80
100
120
0
500
1000
1500
2000
normal (skew=0.14)

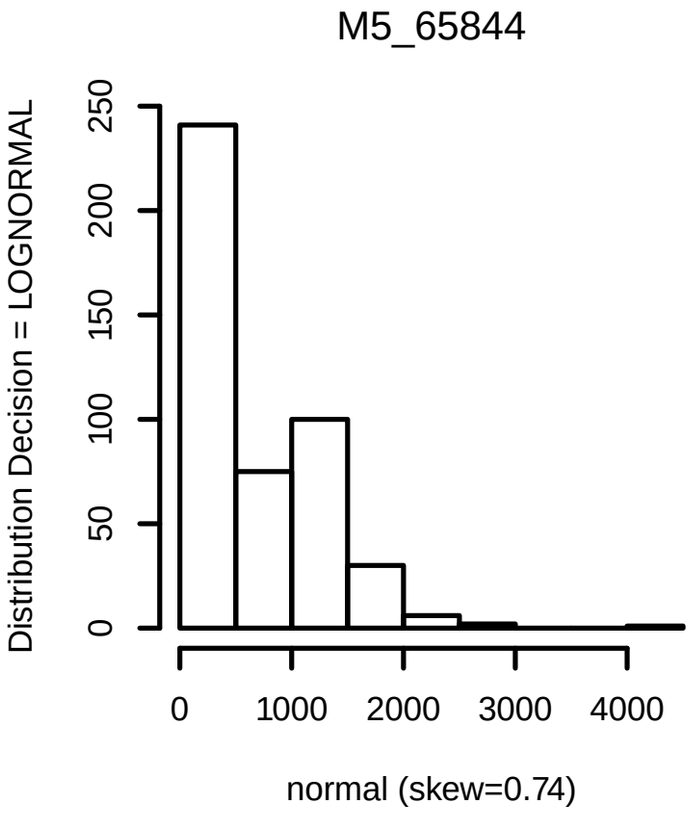

M5_94991
Distribution Decision = NORMAL
0
50
100
150
1
2
3
4
5
6
7
8
lognormal (skew=0.34)

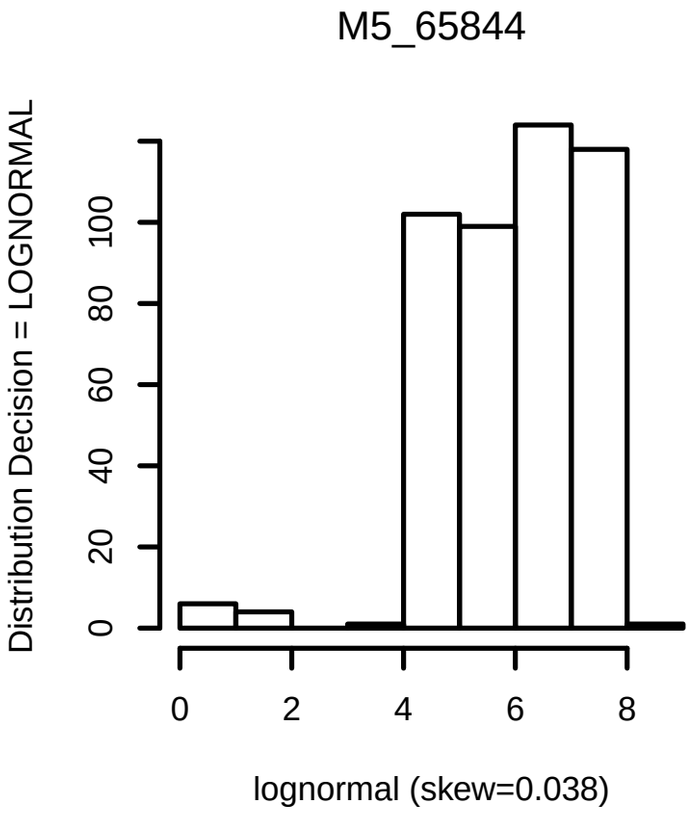

M5_62626
Distribution Decision = NORMAL
0
50
100
150
200
0
1000
2000
3000
4000
normal (skew=0.48)

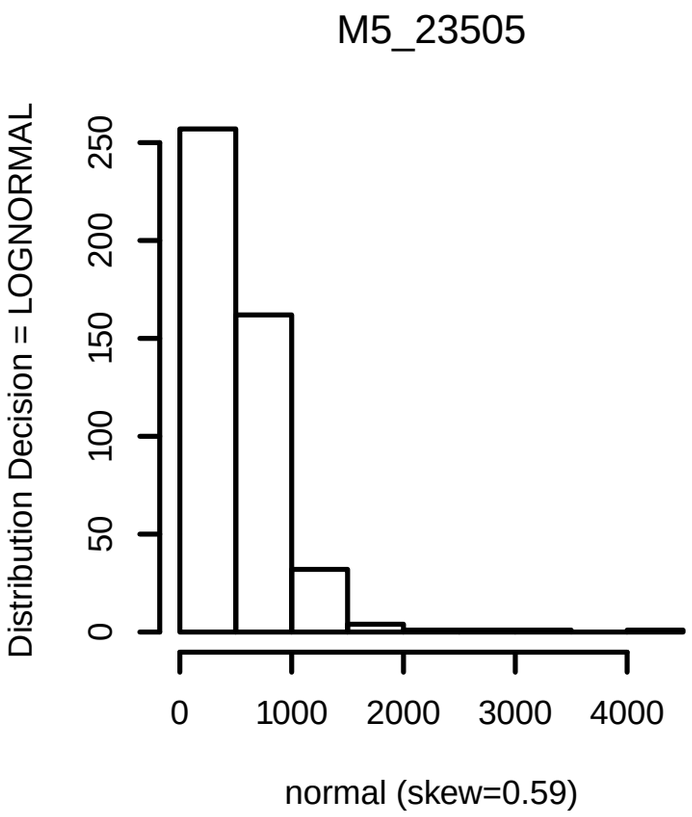

M5_62626
Distribution Decision = NORMAL
0
20
40
60
80
120
0
2
4
6
8
lognormal (skew=1.1)

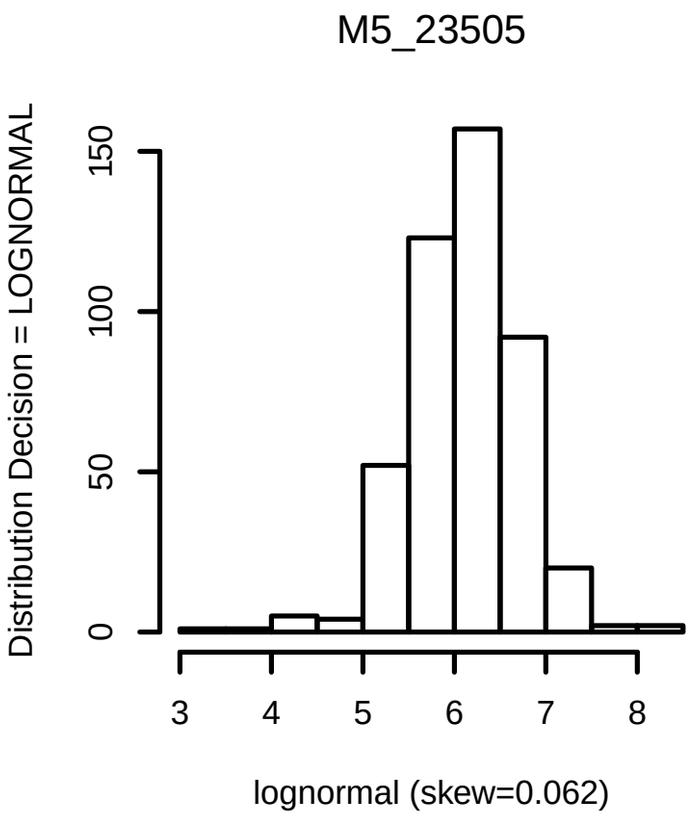

M5_67805
Distribution Decision = NORMAL
0
20
40
60
80
100
140
0
500
1000
1500
2000
normal (skew=0)

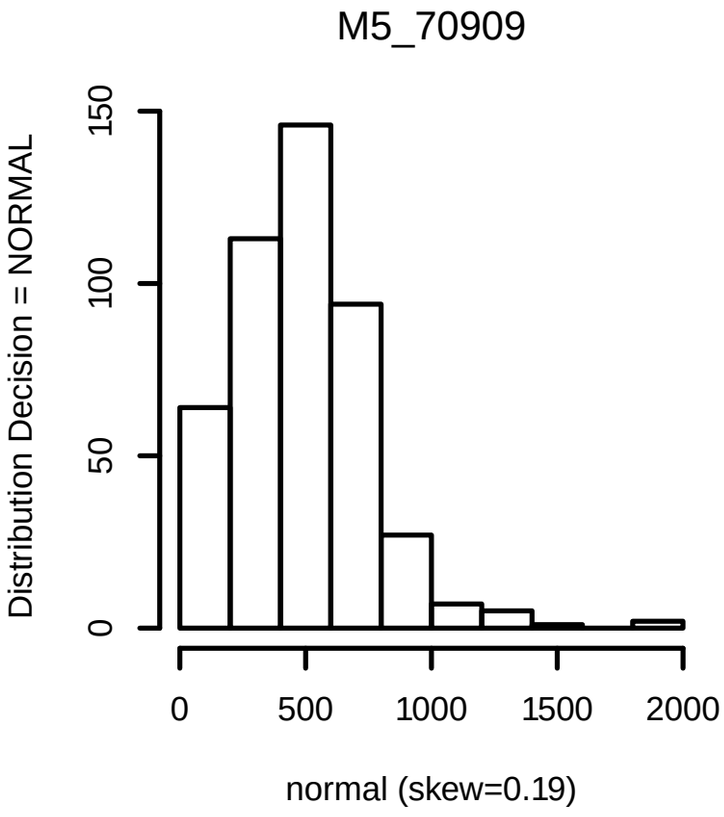

M5_67805
Distribution Decision = NORMAL
0
50
100
150
2
3
4
5
6
7
8
lognormal (skew=0.15)

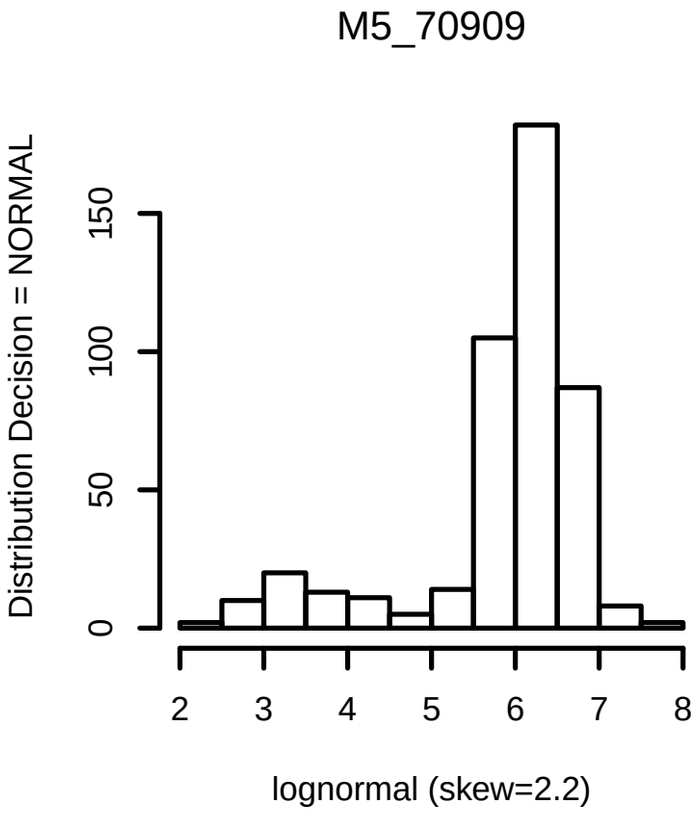

M5_65844
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
2000
3000
4000
normal (skew=0.74)

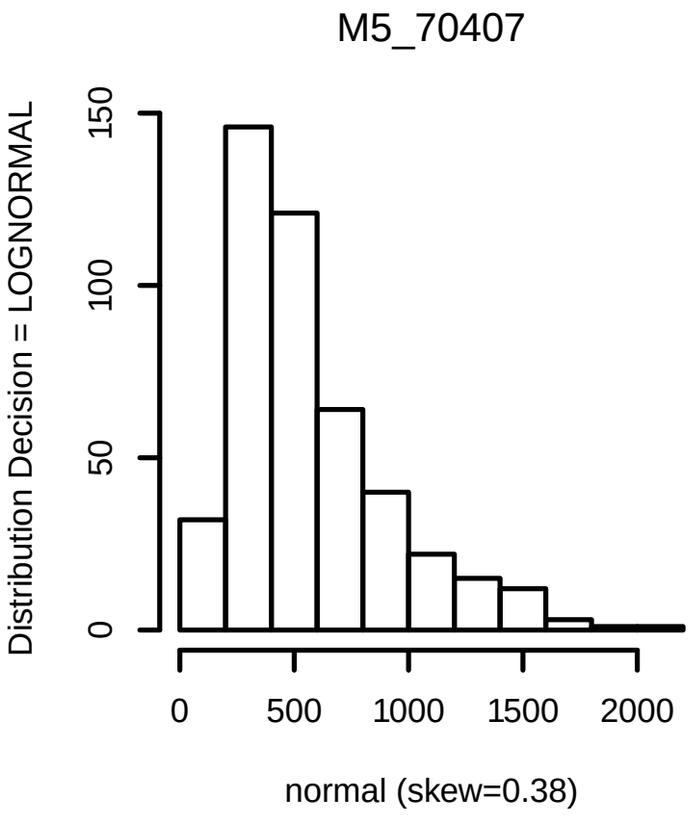

M5_65844
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2
4
6
8
lognormal (skew=0.038)

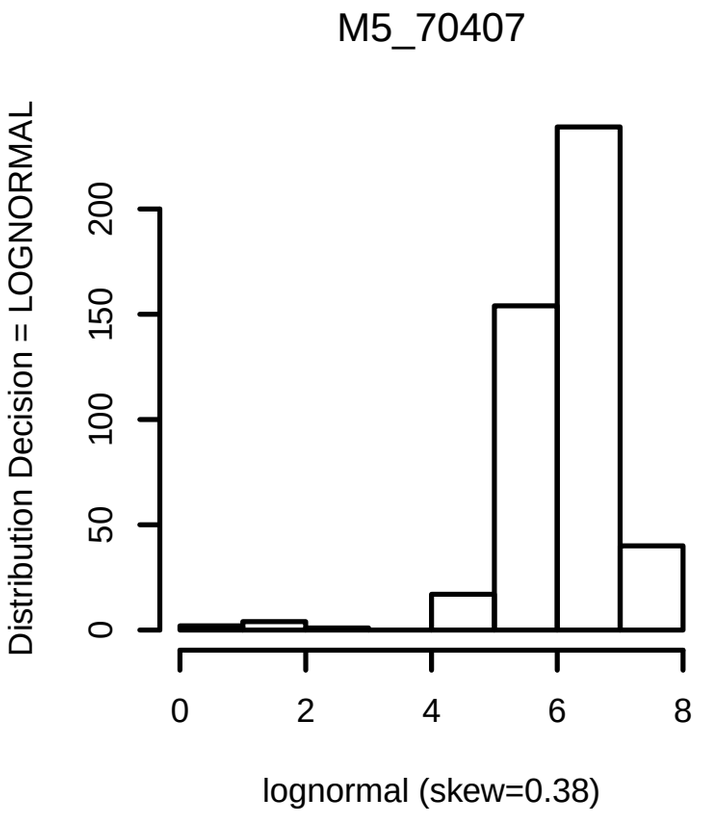

M5_23505
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
2000
3000
4000
normal (skew=0.59)

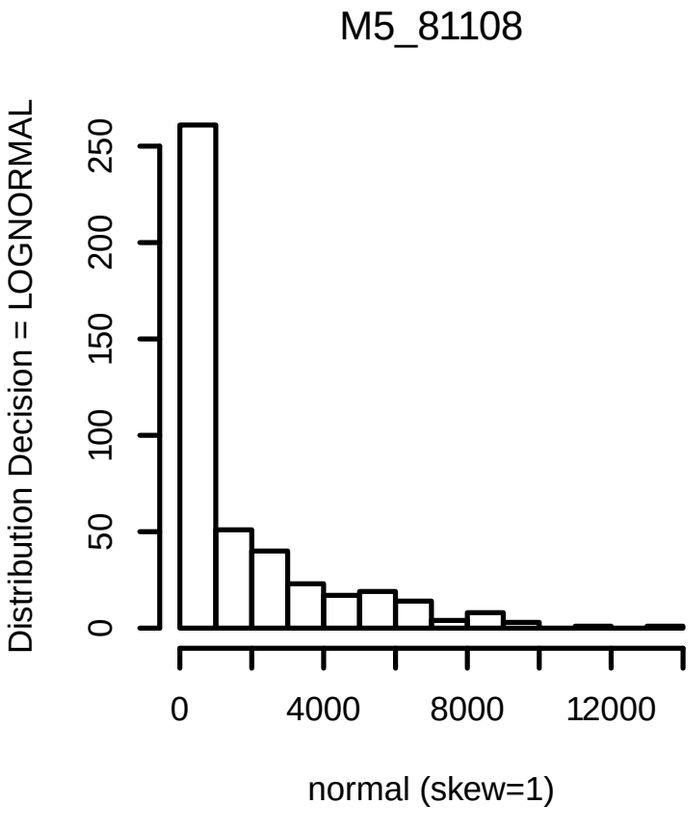

M5_23505
Distribution Decision = LOGNORMAL
0
50
100
150
3
4
5
6
7
8
lognormal (skew=0.062)

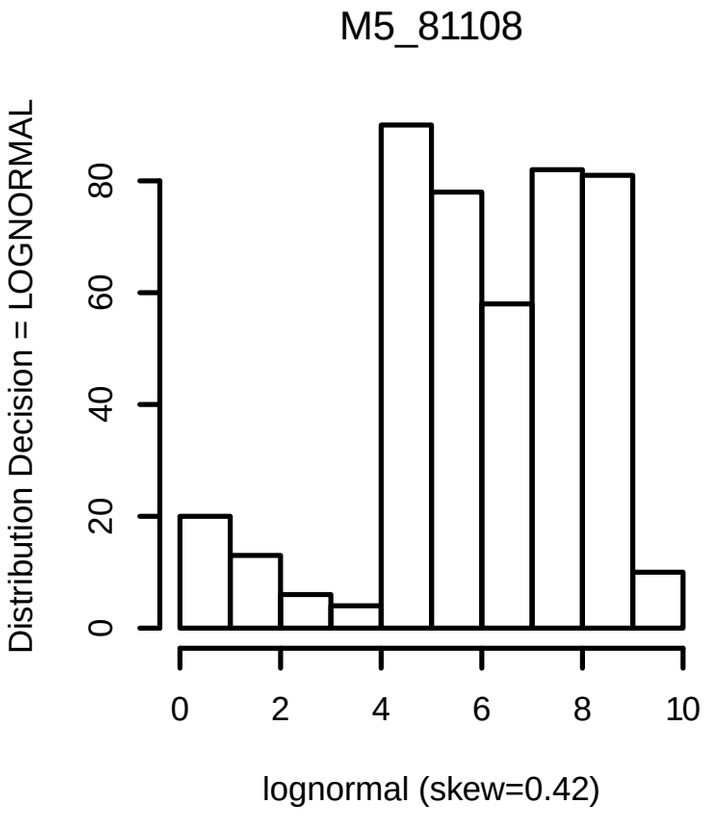

M5_70909
Distribution Decision = NORMAL
0
50
100
150
0
500
1000
1500
2000
normal (skew=0.19)

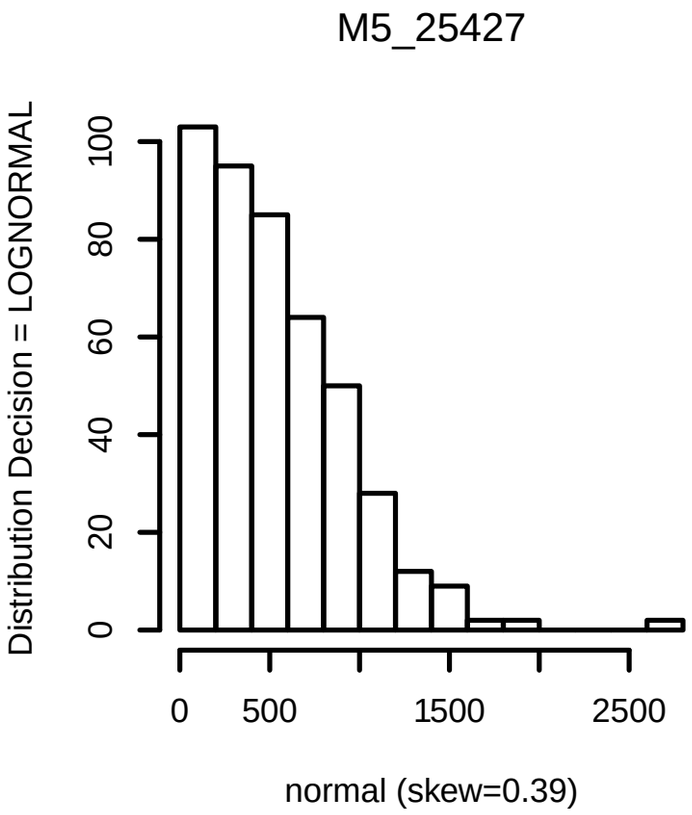

M5_70909
Distribution Decision = NORMAL
0
50
100
150
2
3
4
5
6
7
8
lognormal (skew=2.2)

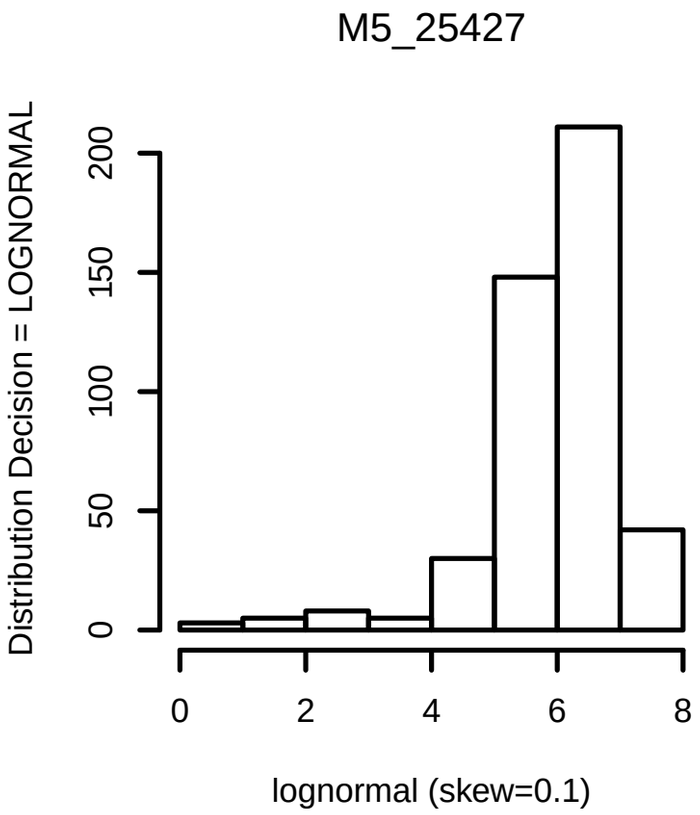

M5_70407
Distribution Decision = LOGNORMAL
0
50
100
150
0
500
1000
1500
2000
normal (skew=0.38)

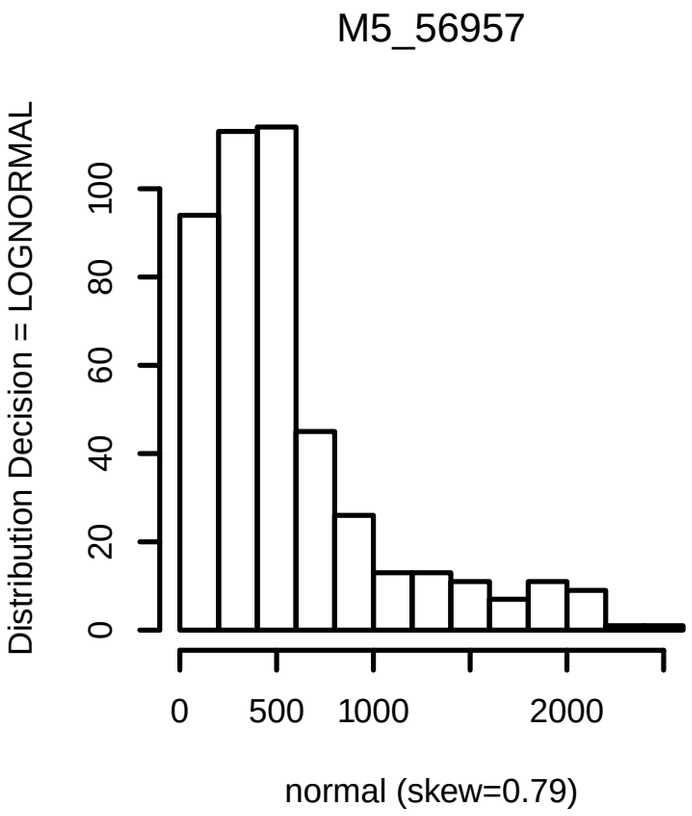

M5_70407
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.38)

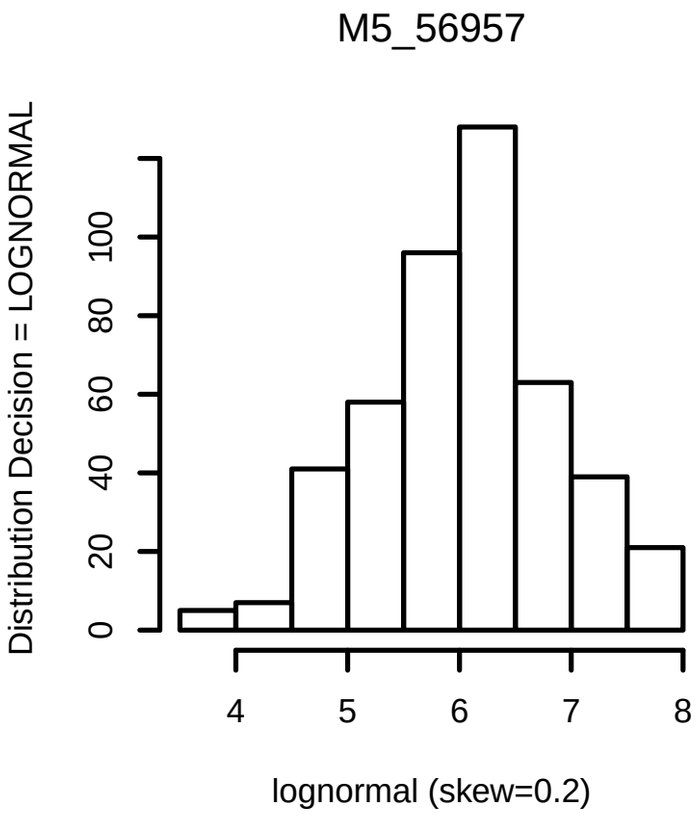

M5_81108
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
4000
8000
12000
normal (skew=1)

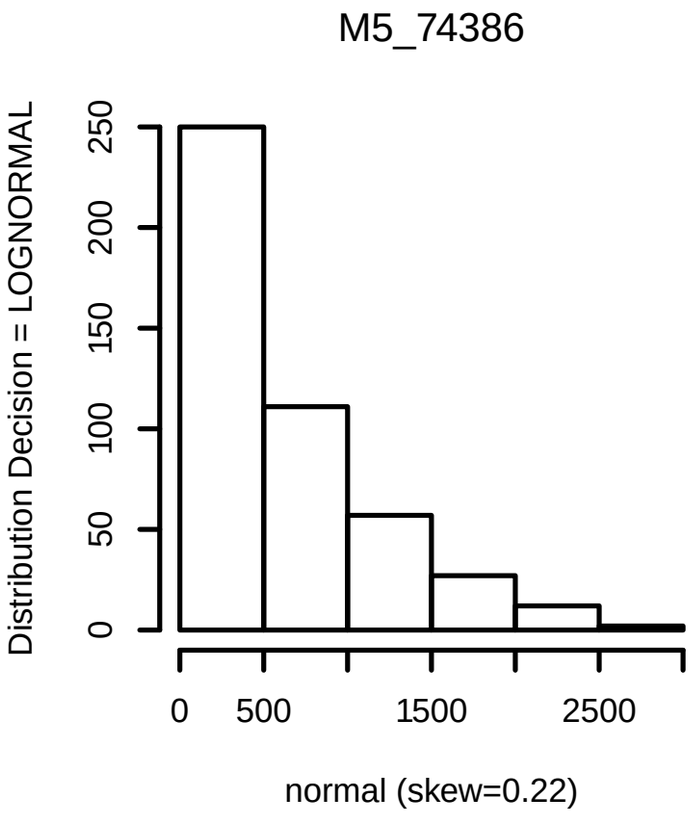

M5_81108
Distribution Decision = LOGNORMAL
0
20
40
60
80
0
2
4
6
8
10
lognormal (skew=0.42)

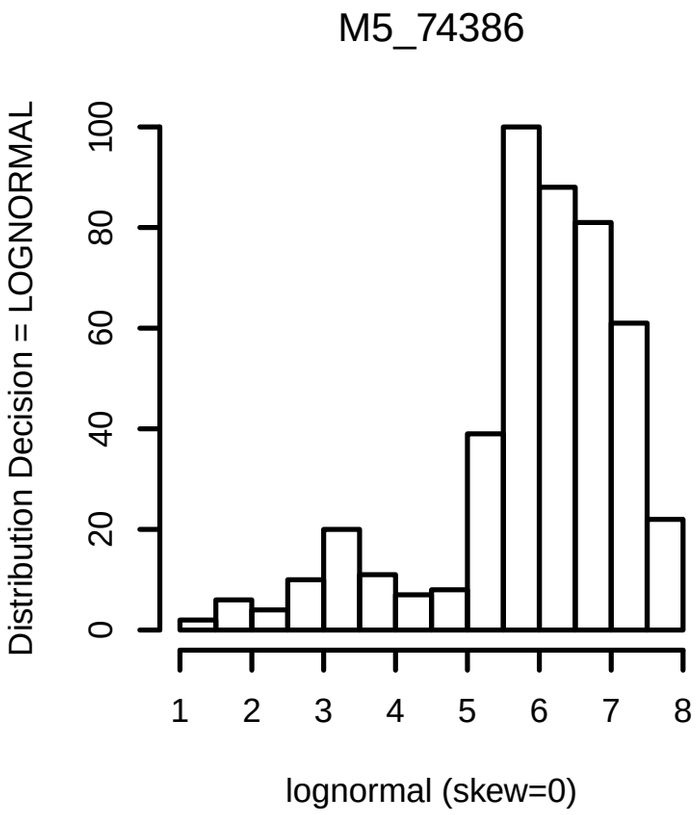

M5_25427
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
500
1500
2500
normal (skew=0.39)

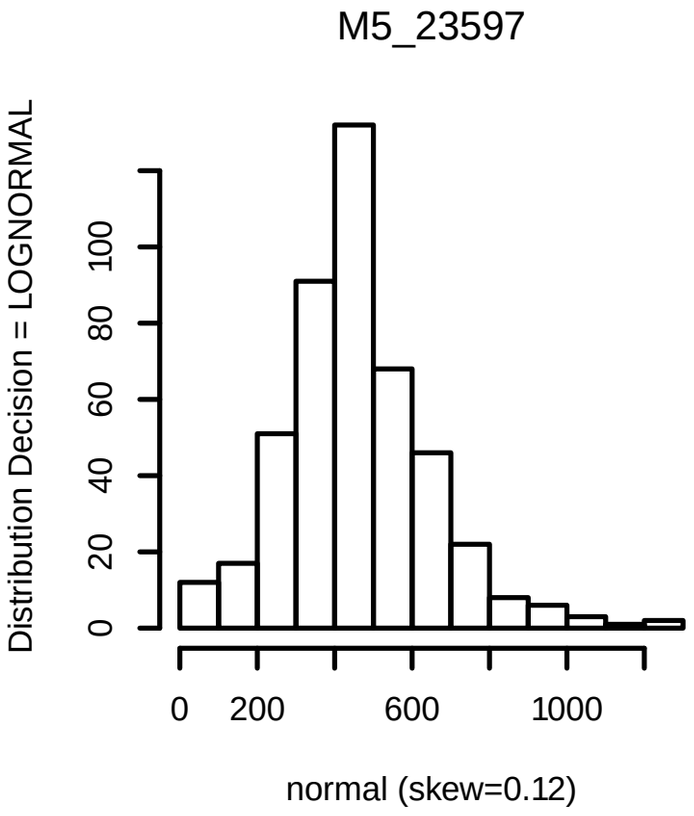

M5_25427
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.1)

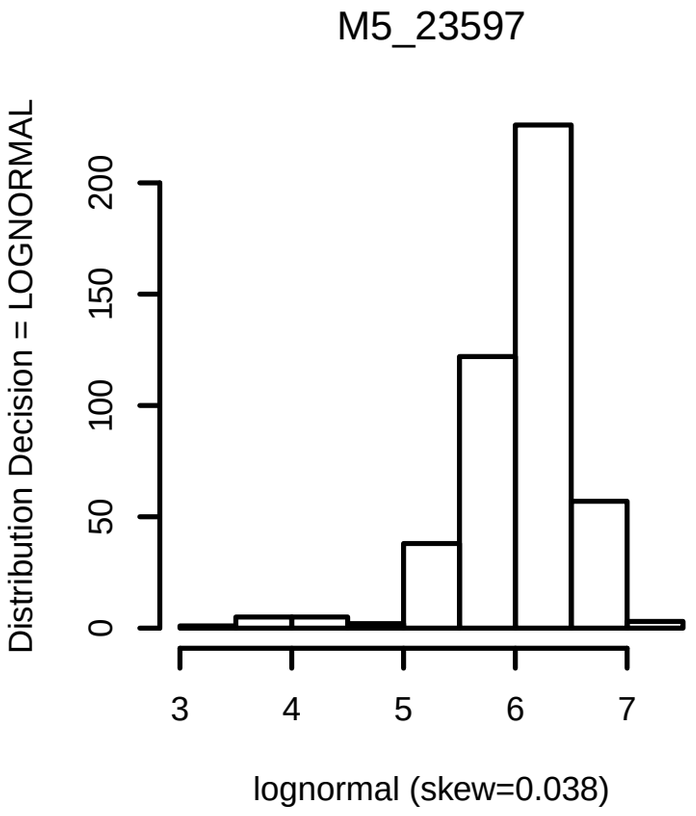

M5_56957
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
500
1000
2000
normal (skew=0.79)

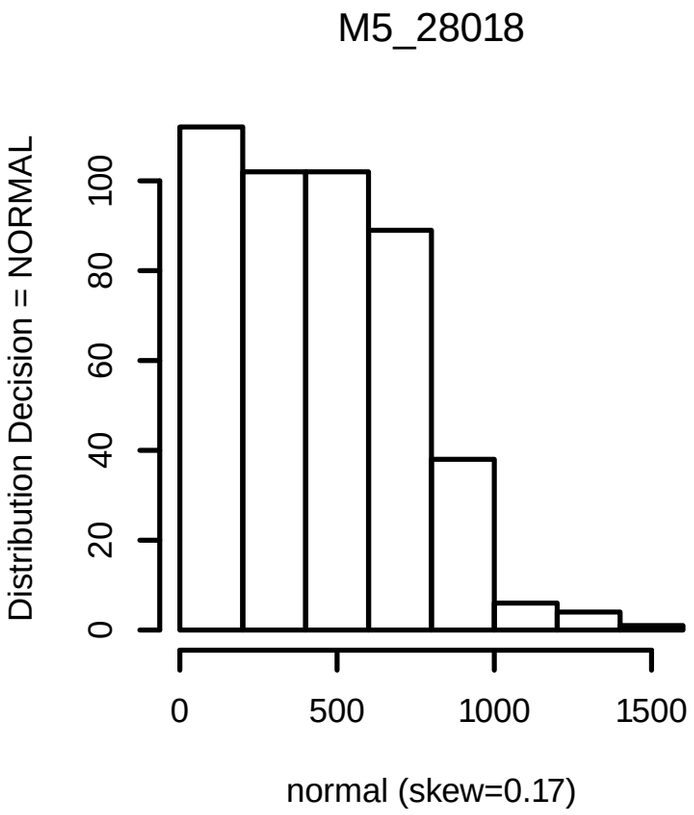

M5_56957
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
lognormal (skew=0.2)

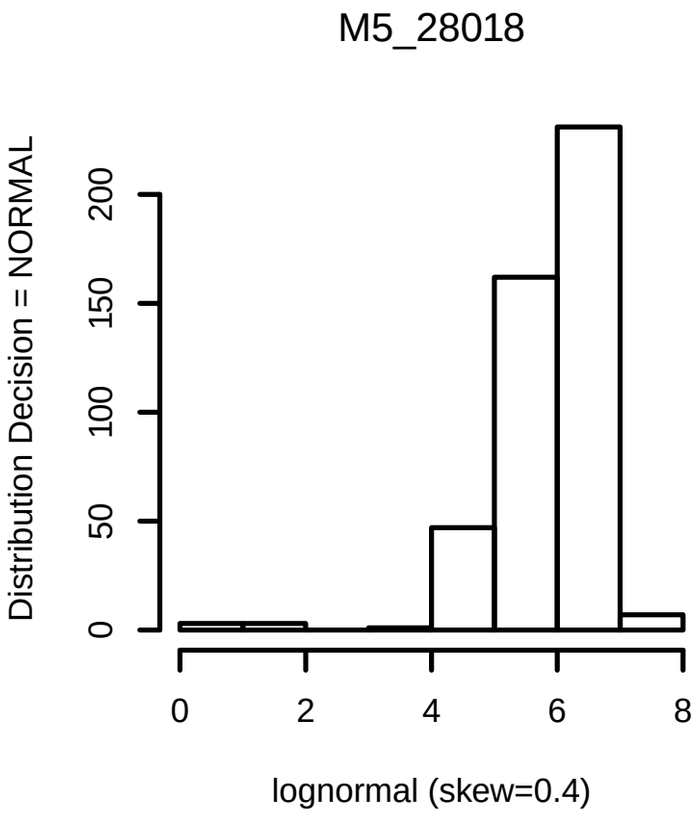

M5_74386
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
500
1500
2500
normal (skew=0.22)

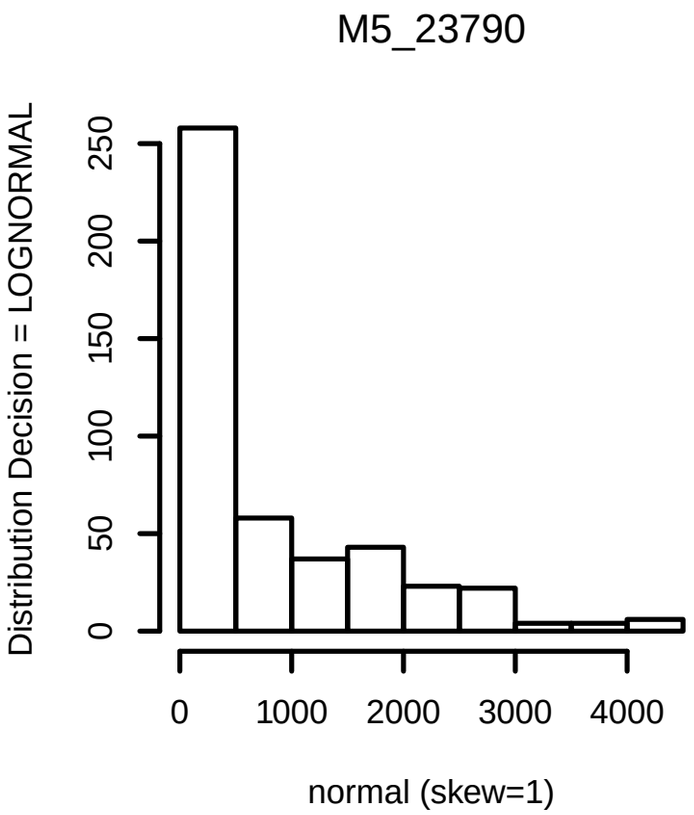

M5_74386
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
1
2
3
4
5
6
7
8
lognormal (skew=0)

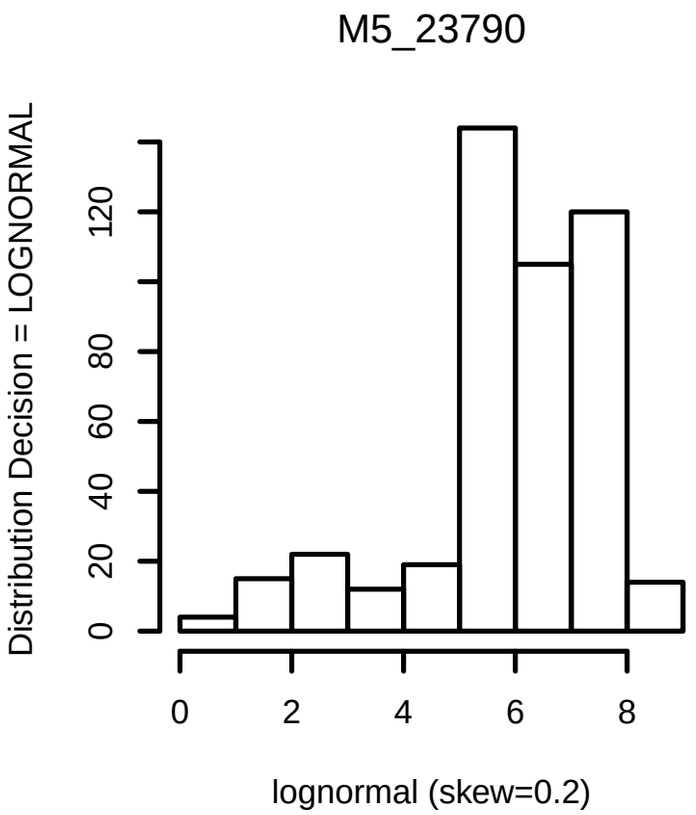

M5_23597
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
200
600
1000
normal (skew=0.12)

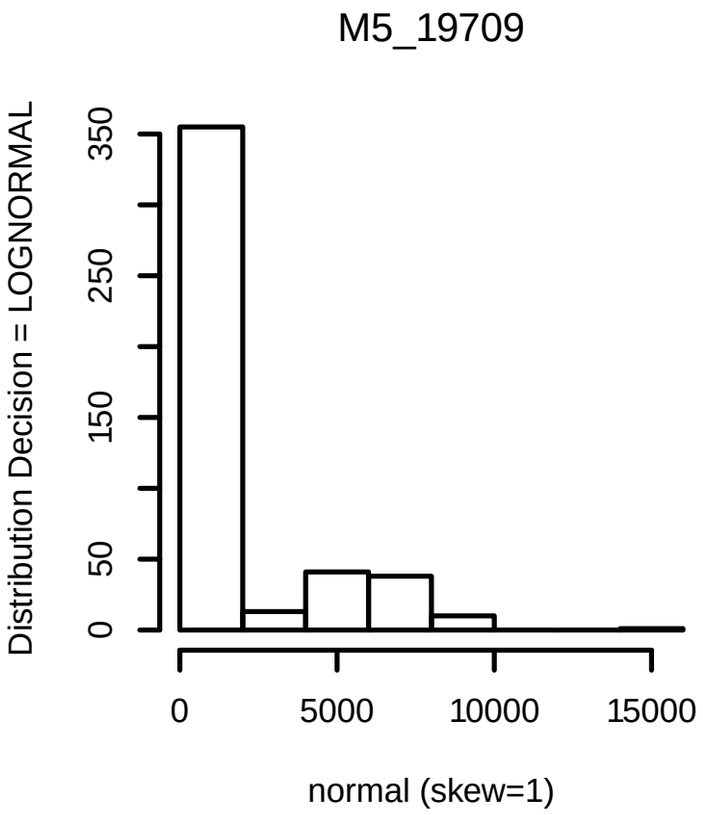

M5_23597
Distribution Decision = LOGNORMAL
0
50
100
150
200
3
4
5
6
7
lognormal (skew=0.038)

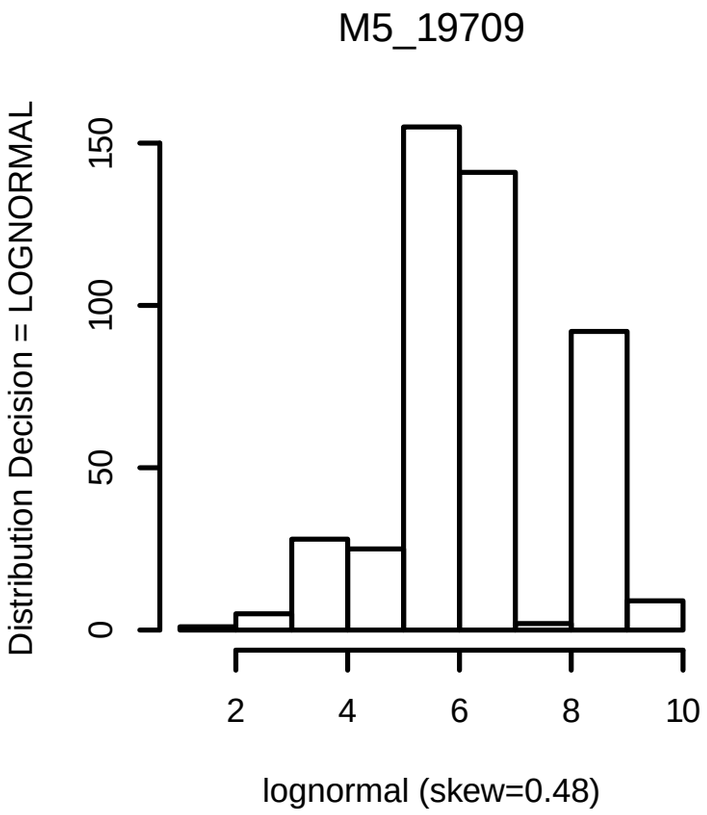

M5_28018
Distribution Decision = NORMAL
0
20
40
60
80
100
0
500
1000
1500
normal (skew=0.17)

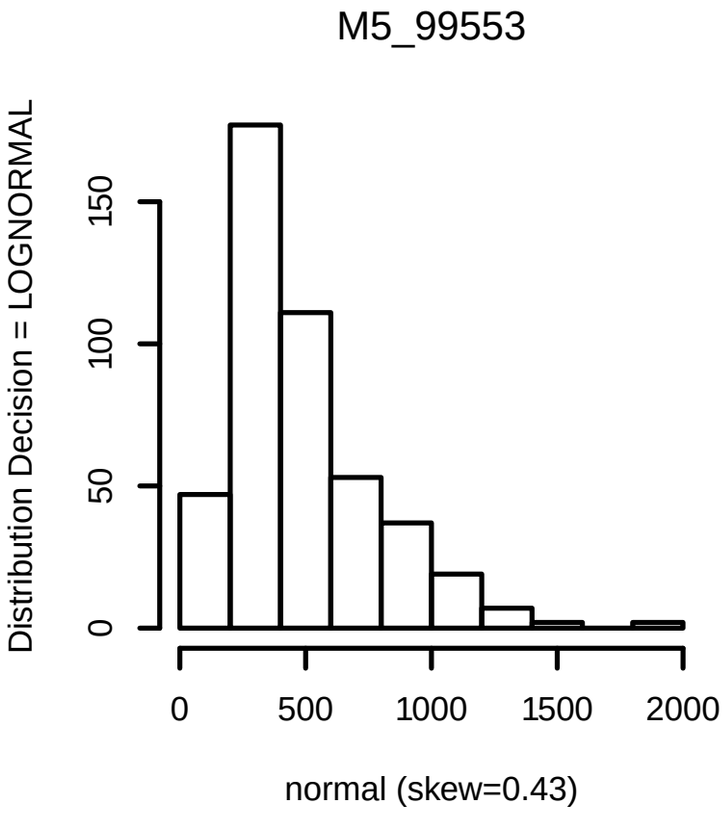

M5_28018
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.4)

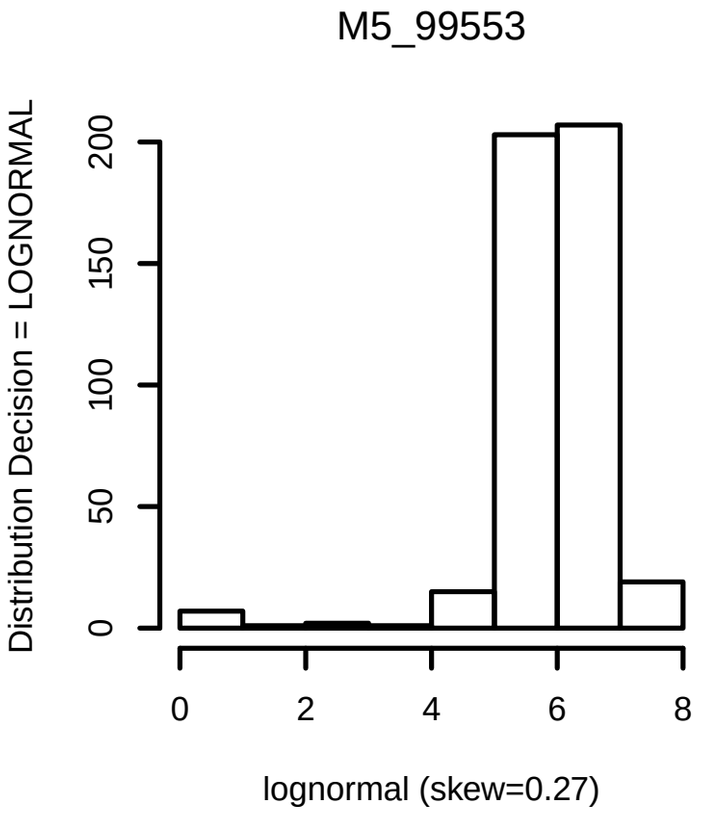

M5_23790
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
2000
3000
4000
normal (skew=1)

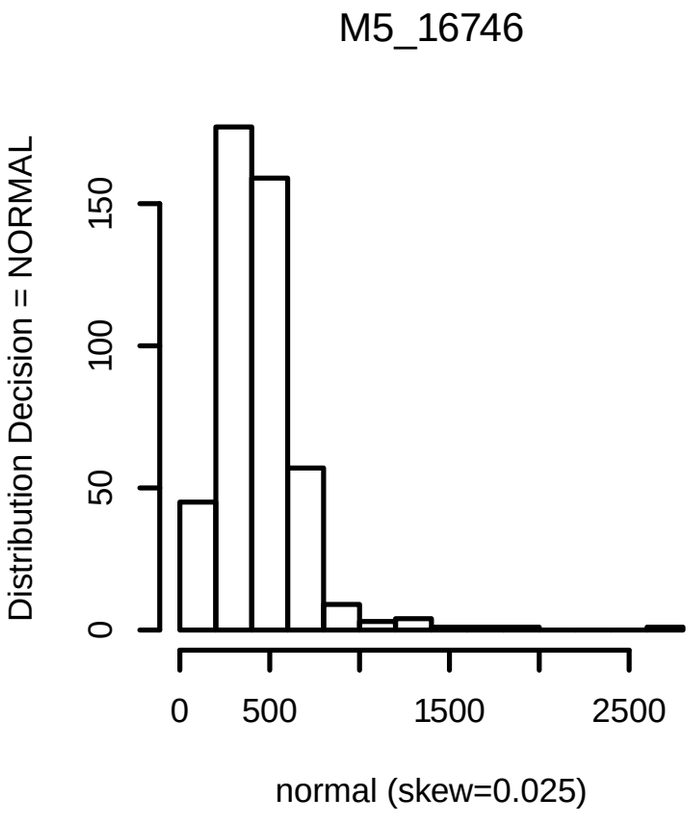

M5_23790
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
2
4
6
8
lognormal (skew=0.2)

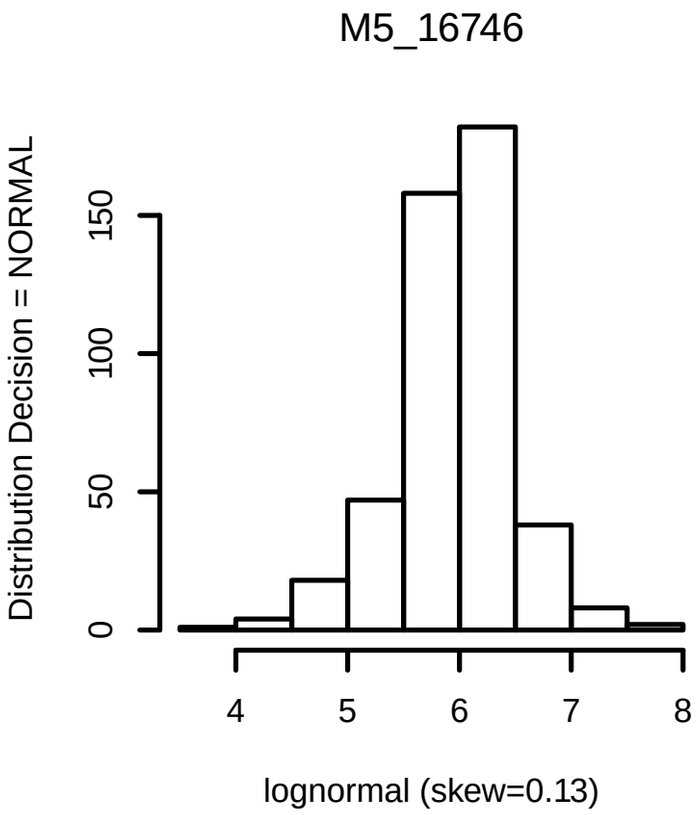

M5_19709
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
5000
10000
15000
normal (skew=1)

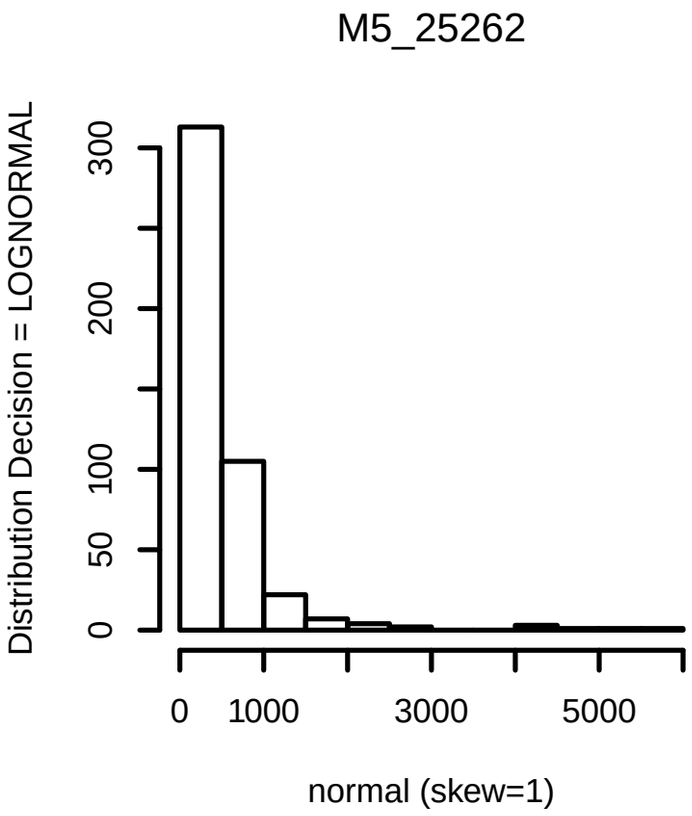

M5_19709
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
lognormal (skew=0.48)

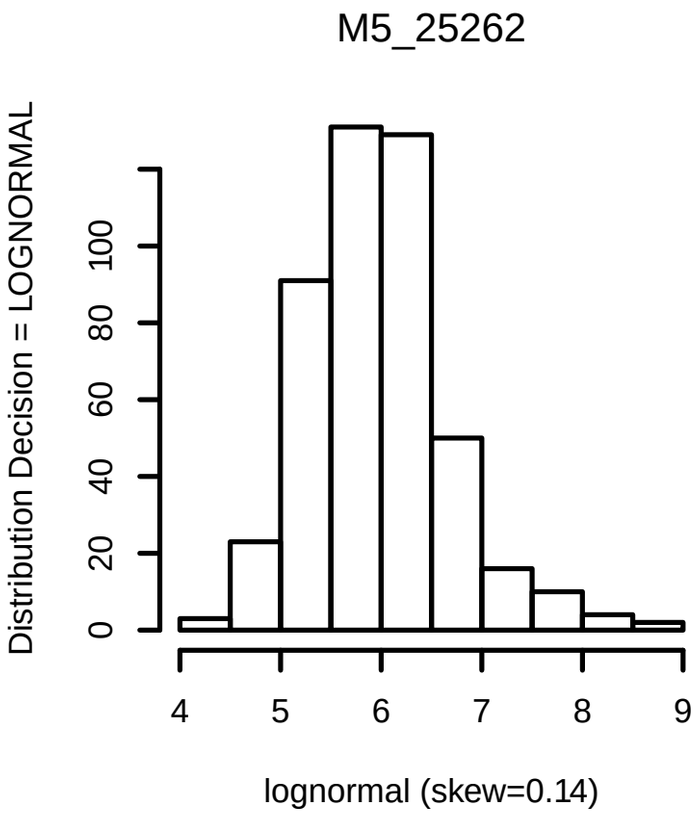

M5_99553
Distribution Decision = LOGNORMAL
0
50
100
150
0
500
1000
1500
2000
normal (skew=0.43)

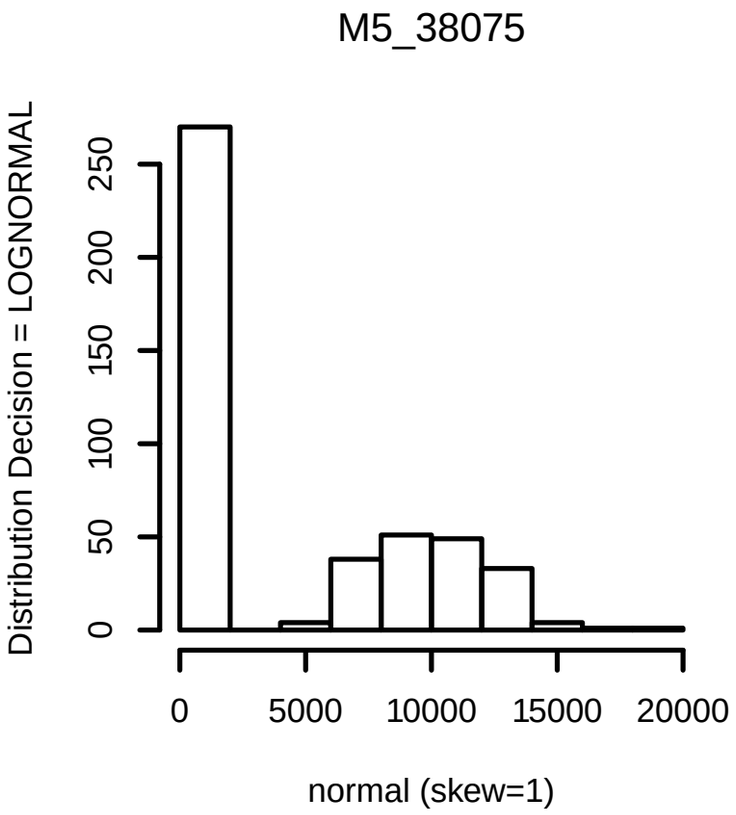

M5_99553
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.27)

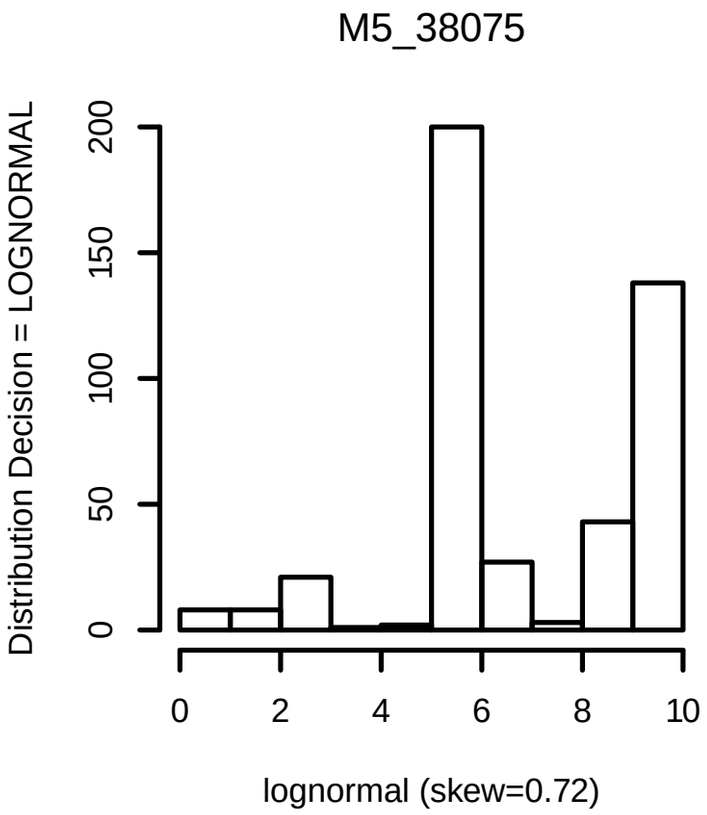

M5_16746
Distribution Decision = NORMAL
0
50
100
150
0
500
1500
2500
normal (skew=0.025)

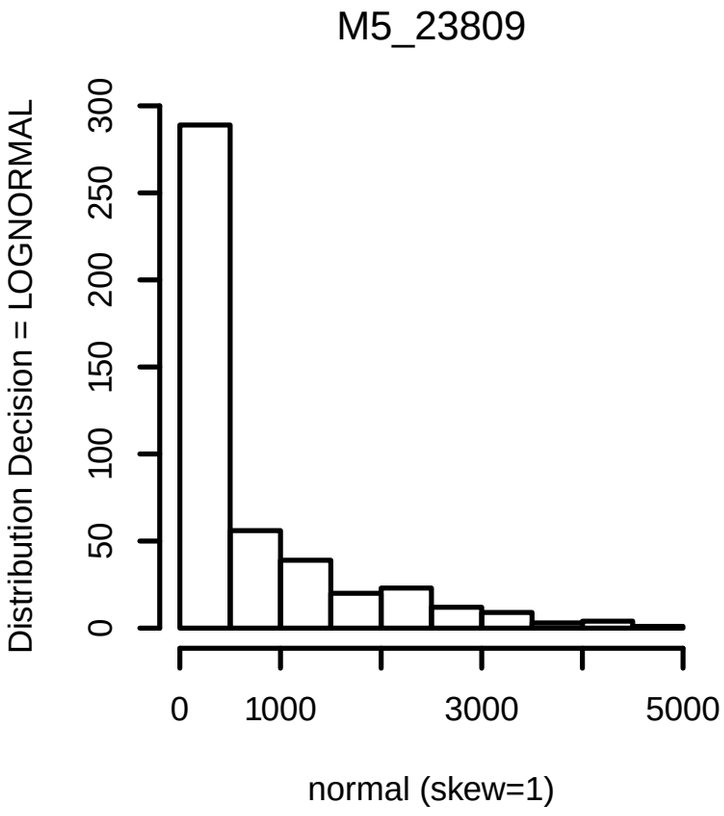

M5_16746
Distribution Decision = NORMAL
0
50
100
150
4
5
6
7
8
lognormal (skew=0.13)

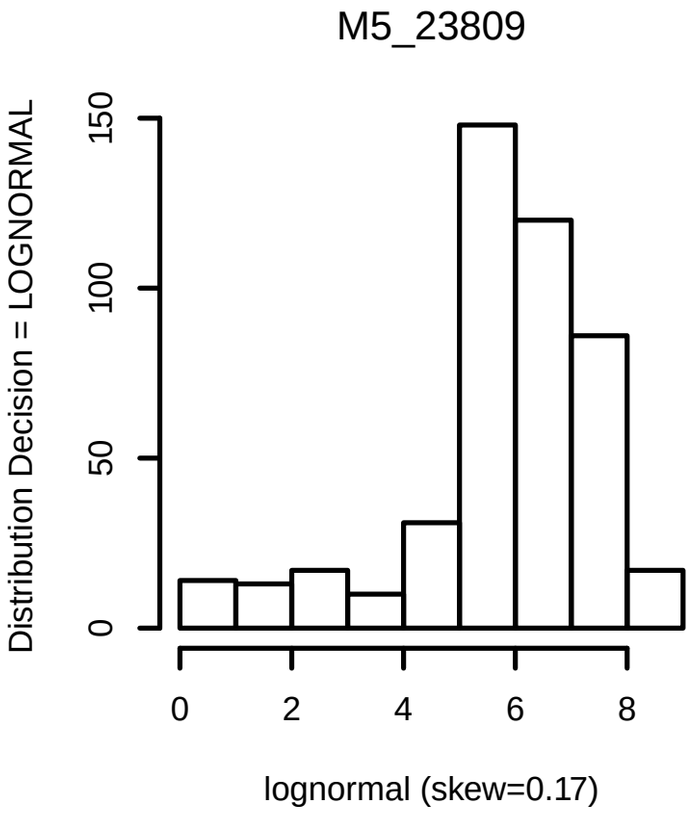

M5_25262
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
1000
3000
5000
normal (skew=1)

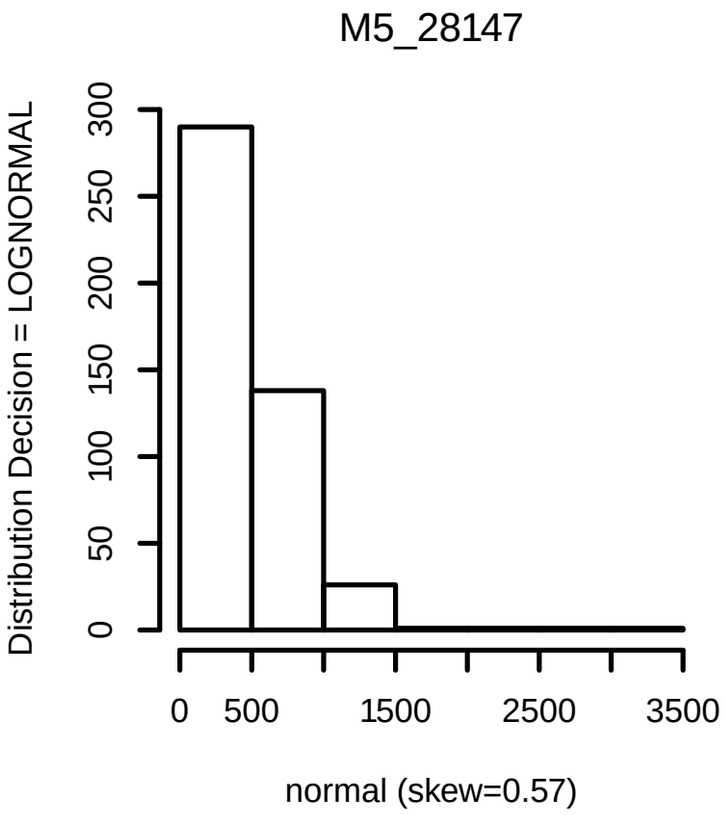

M5_25262
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
9
lognormal (skew=0.14)

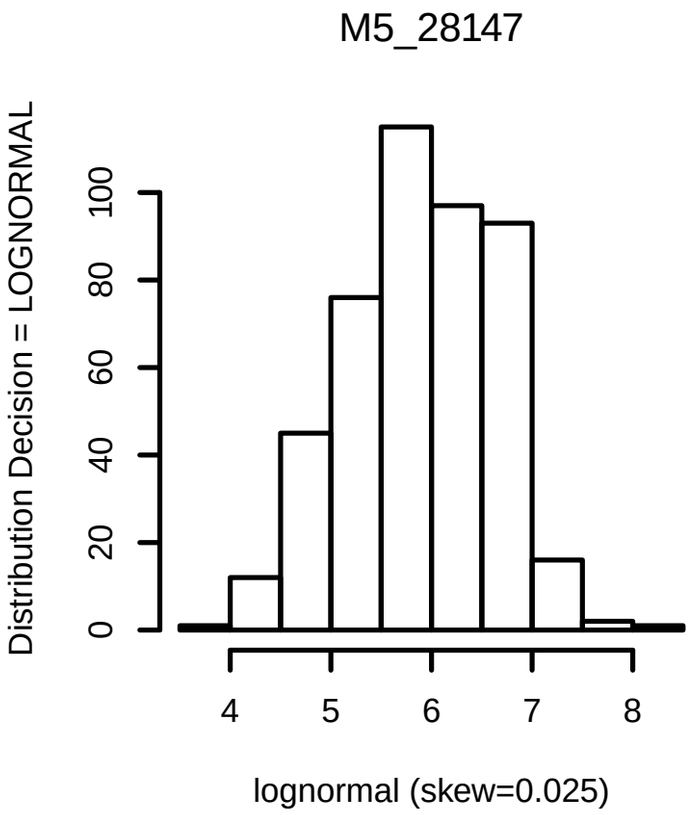

M5_38075
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
5000
10000
15000
20000
normal (skew=1)

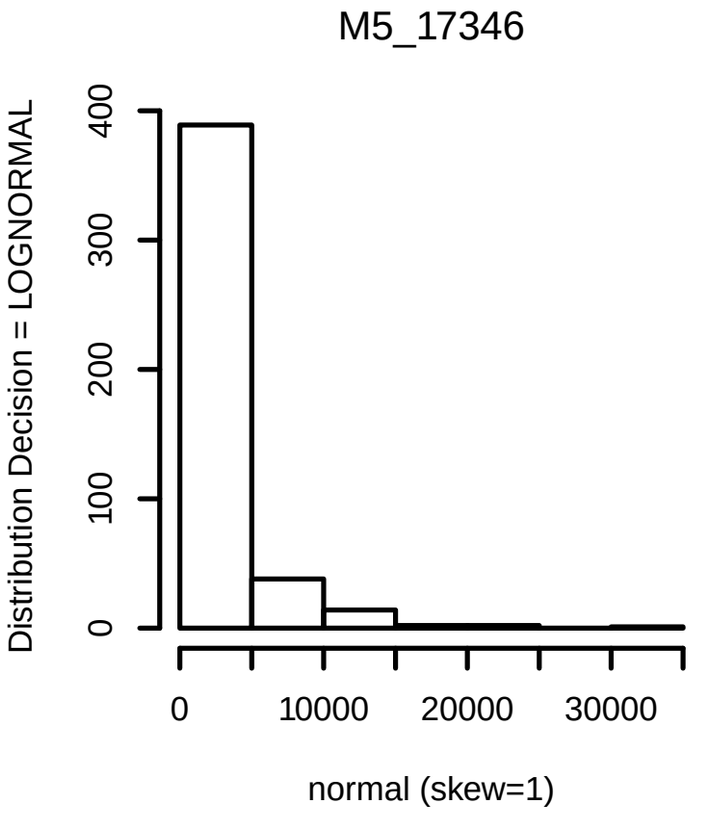

M5_38075
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
10
lognormal (skew=0.72)

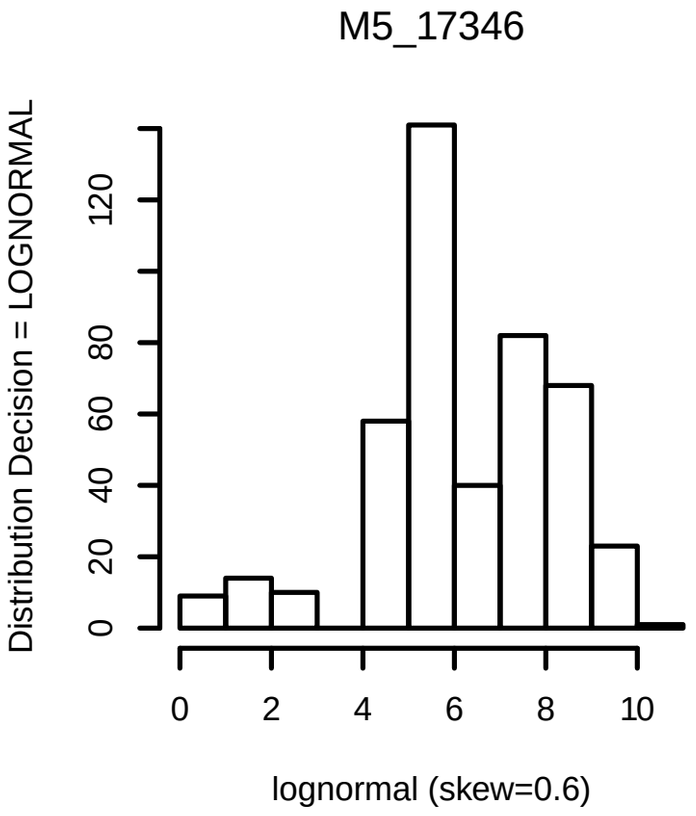

M5_23809
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
1000
3000
5000
normal (skew=1)

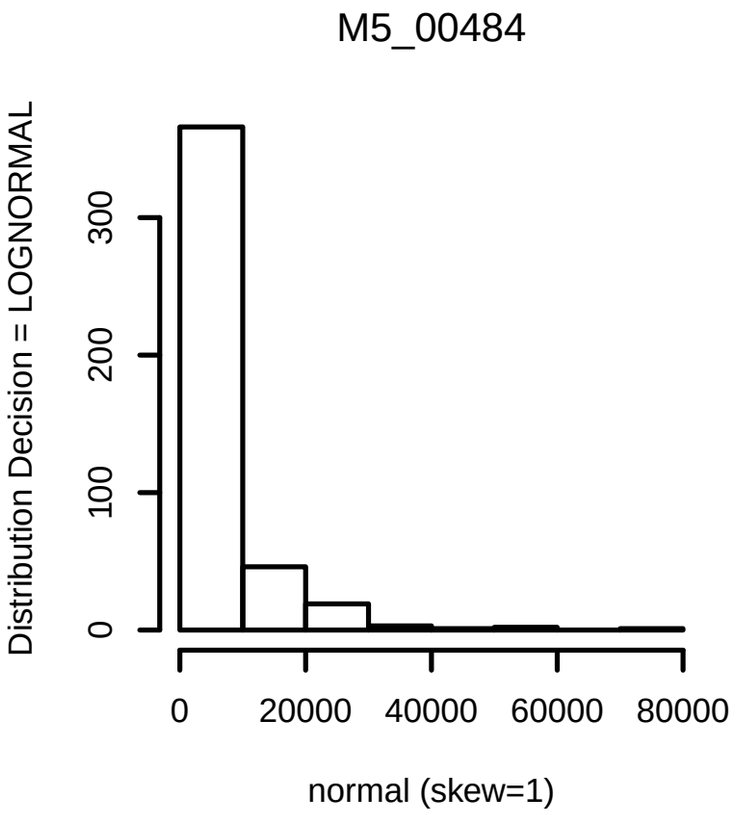

M5_23809
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=0.17)

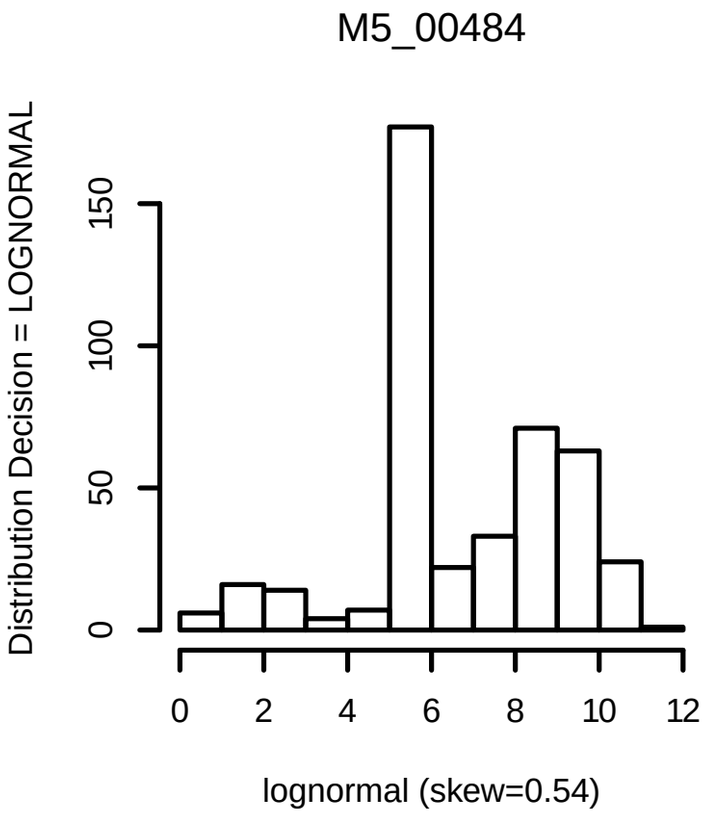

M5_28147
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
300
0
500
1500
2500
3500
normal (skew=0.57)

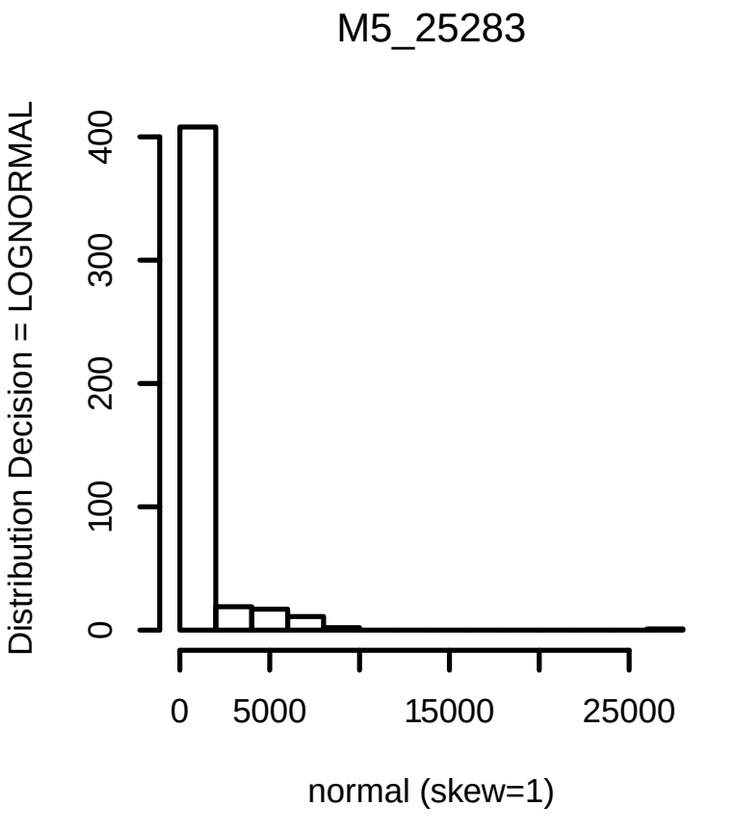

M5_28147
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
lognormal (skew=0.025)

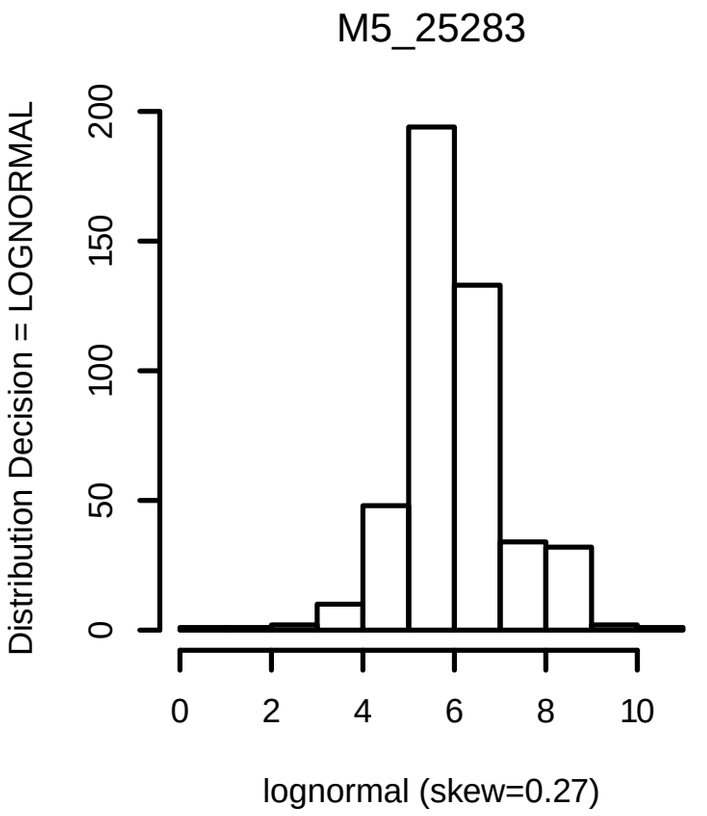

M5_17346
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
20000
30000
normal (skew=1)

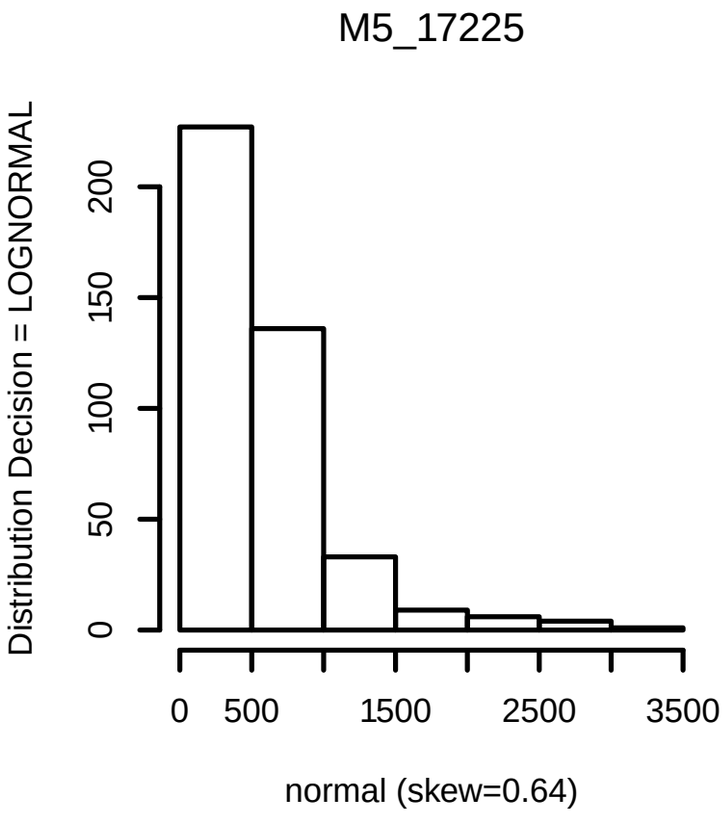

M5_17346
Distribution Decision = LOGNORMAL
0
20
40
60
80
120
0
2
4
6
8
10
lognormal (skew=0.6)

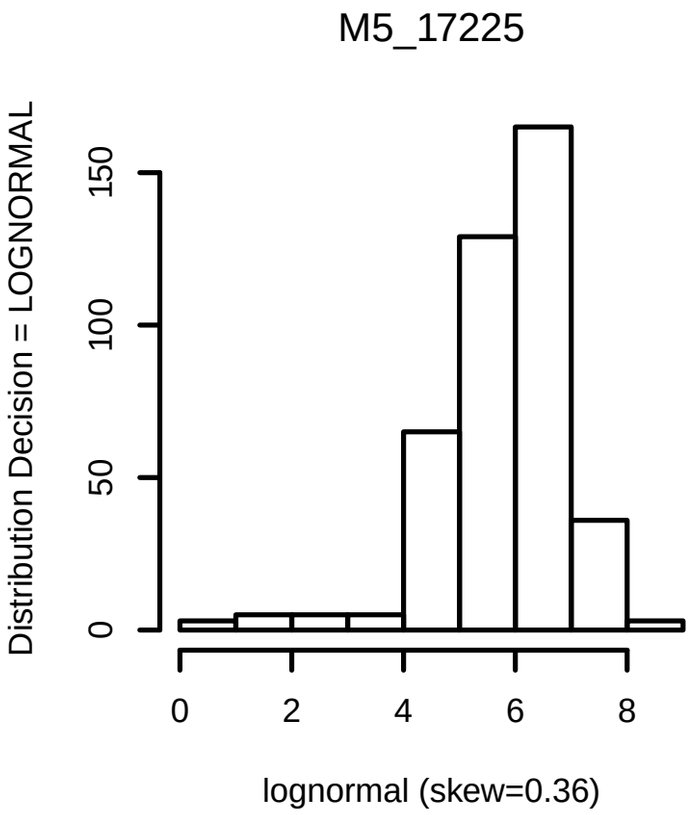

M5_00484
Distribution Decision = LOGNORMAL
0
100
200
300
0
20000
40000
60000
80000
normal (skew=1)

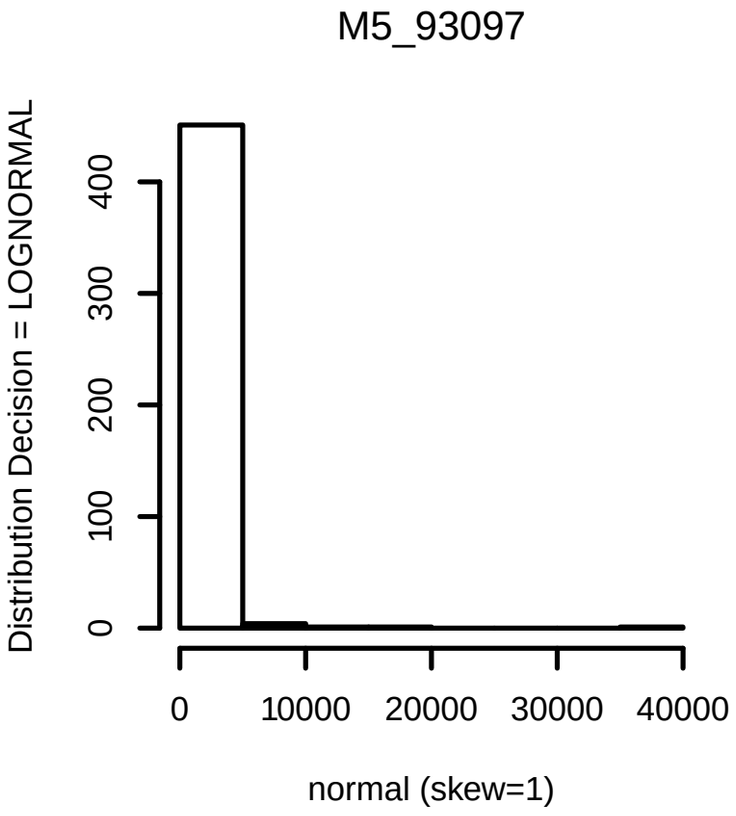

M5_00484
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
10
12
lognormal (skew=0.54)

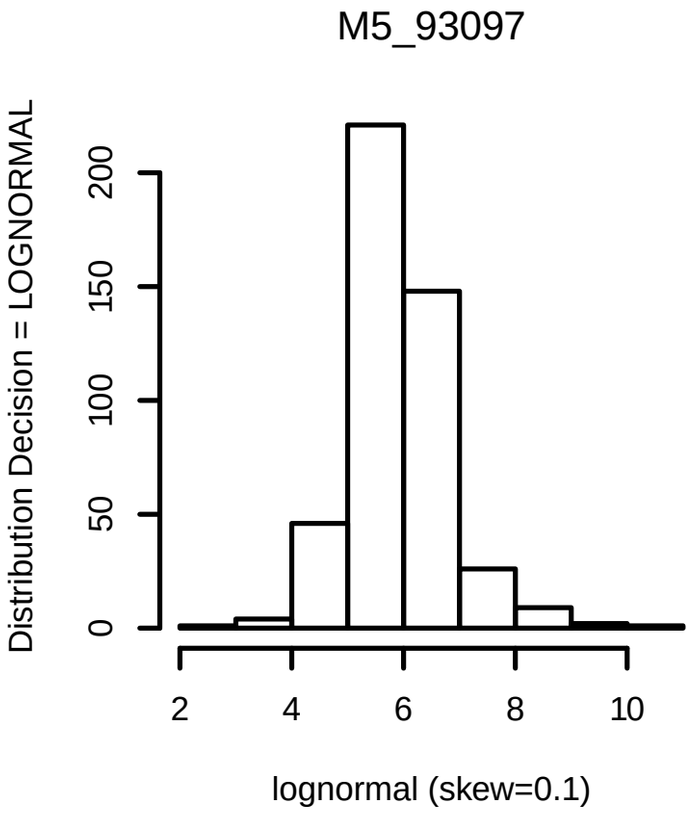

M5_25283
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
5000
15000
25000
normal (skew=1)

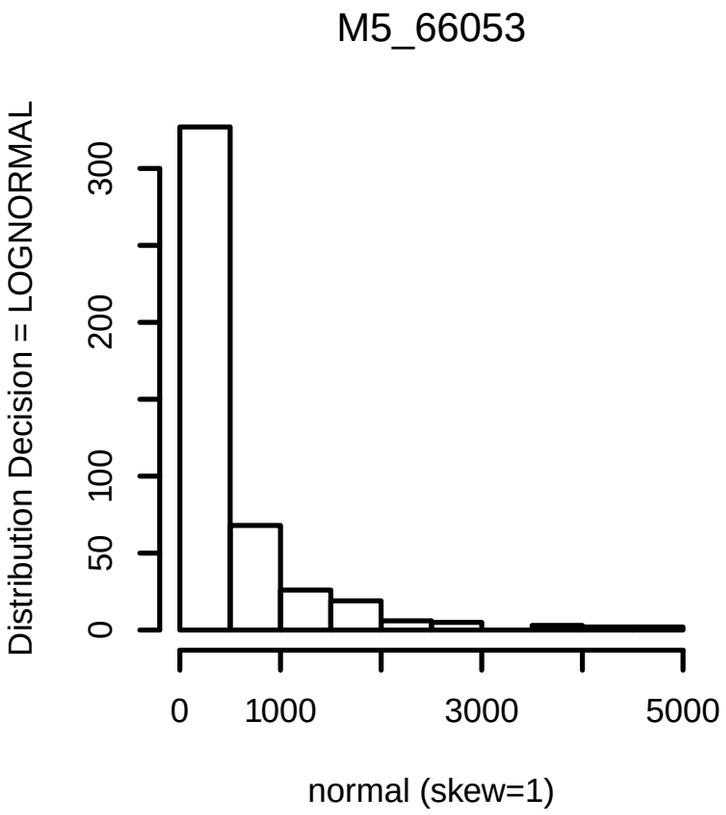

M5_25283
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
10
lognormal (skew=0.27)

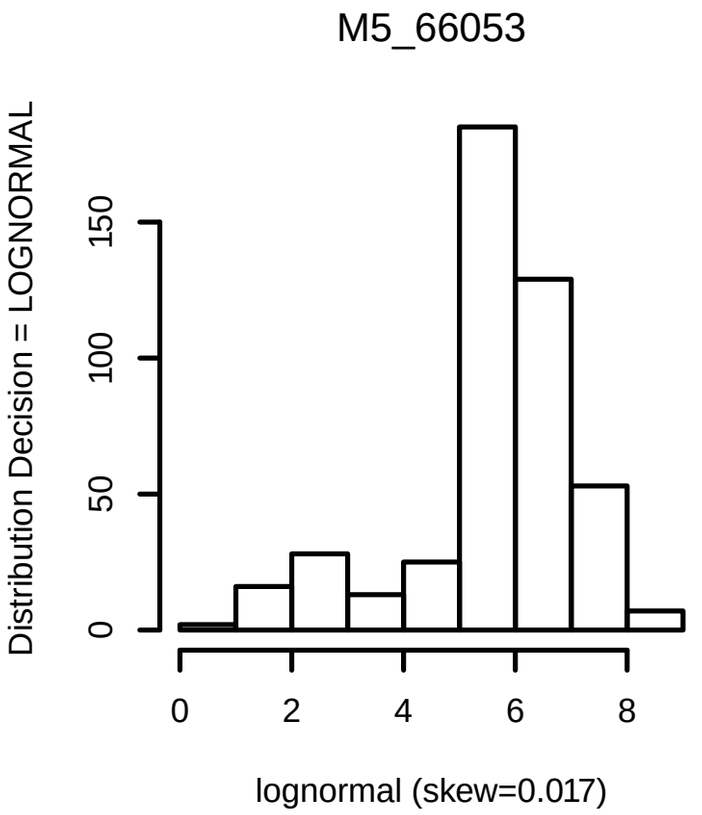

M5_17225
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1500
2500
3500
normal (skew=0.64)

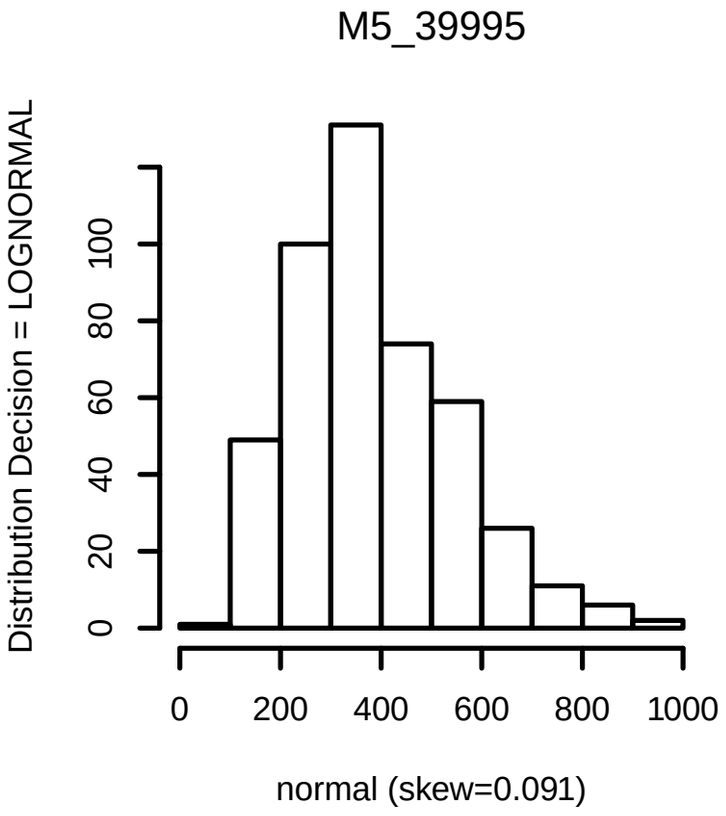

M5_17225
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=0.36)

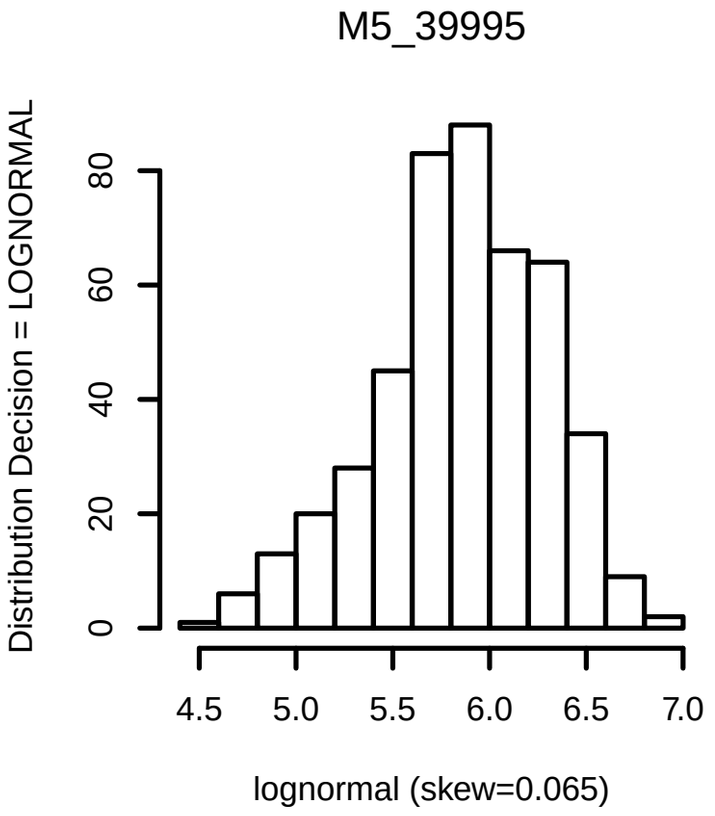

M5_93097
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
10000
20000
30000
40000
normal (skew=1)

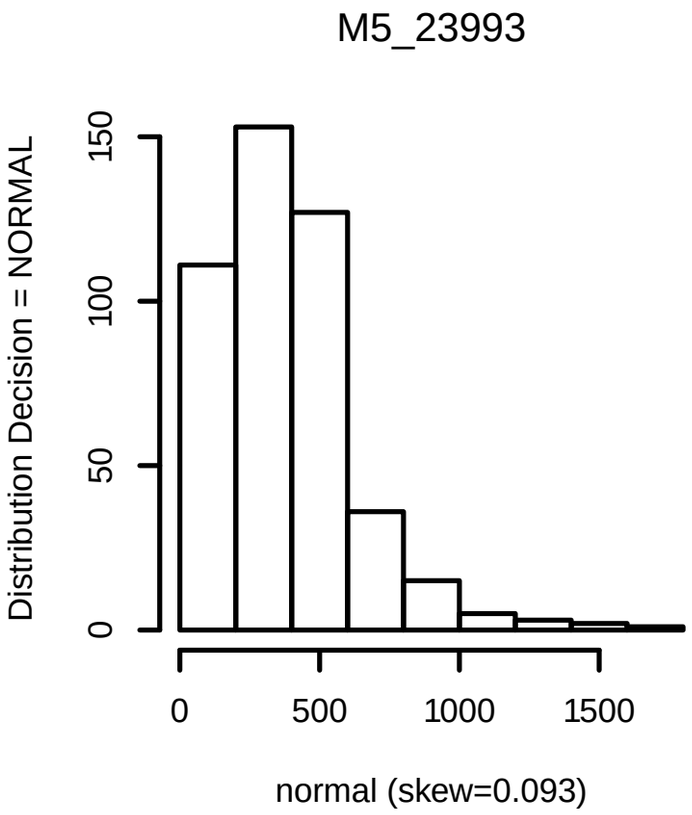

M5_93097
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
10
lognormal (skew=0.1)

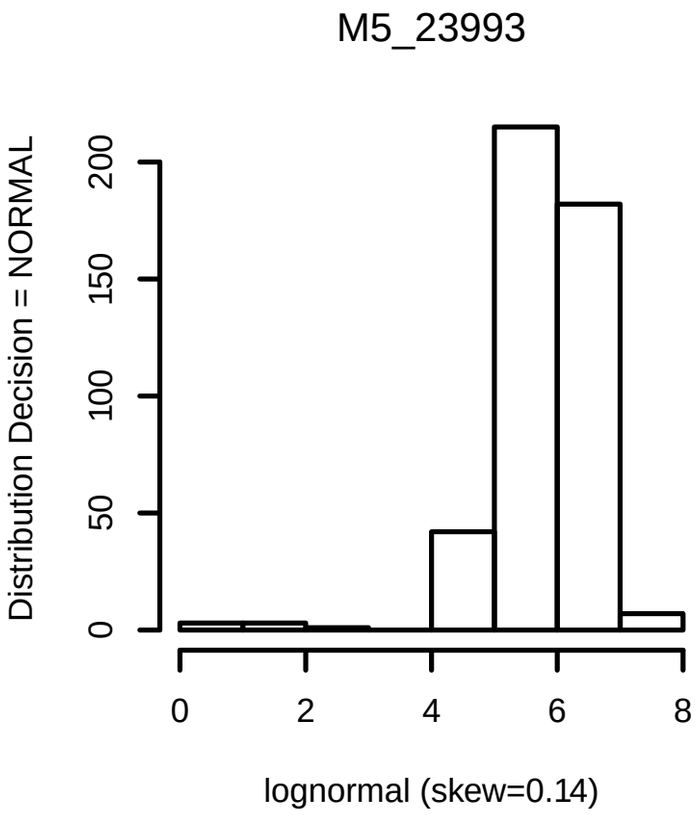

M5_66053
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
1000
3000
5000
normal (skew=1)

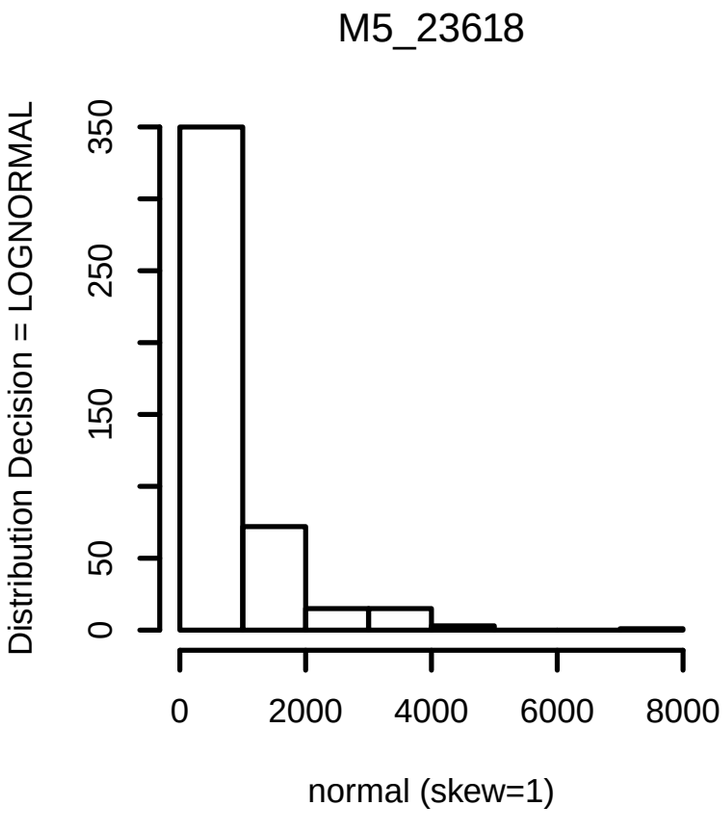

M5_66053
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=0.017)

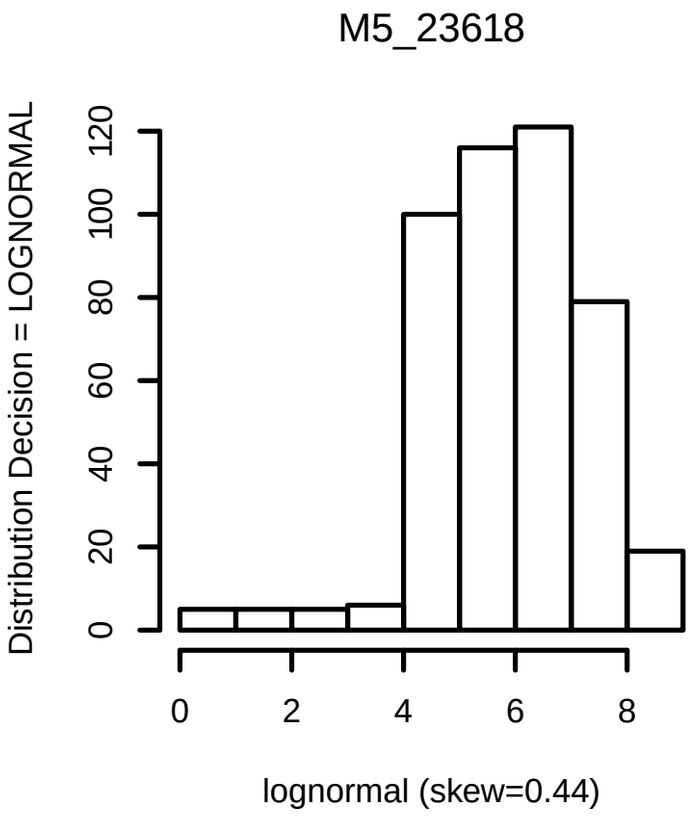

M5_39995
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
200
400
600
800
1000
normal (skew=0.091)

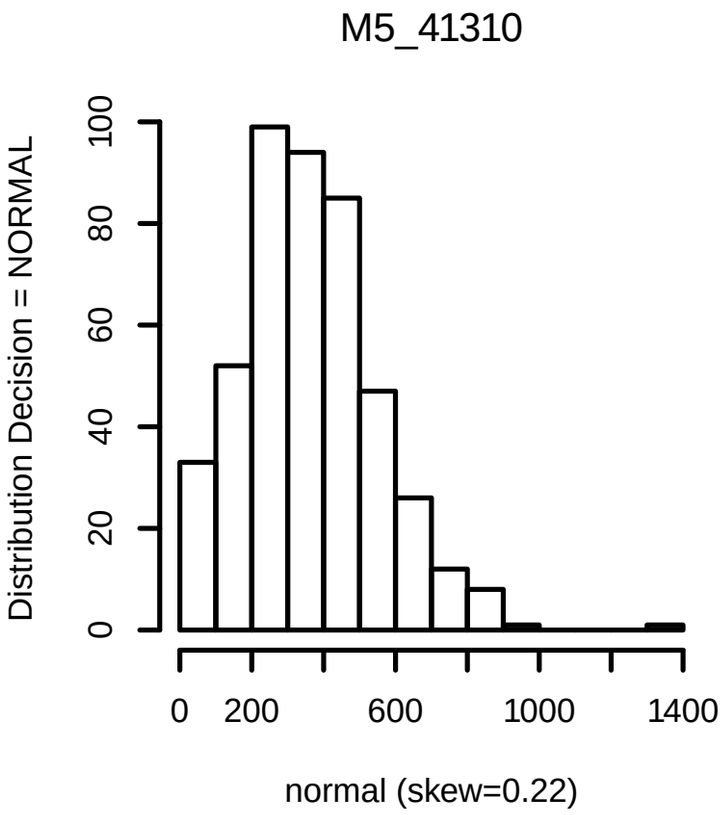

M5_39995
Distribution Decision = LOGNORMAL
0
20
40
60
80
4.5
5.0
5.5
6.0
6.5
7.0
lognormal (skew=0.065)

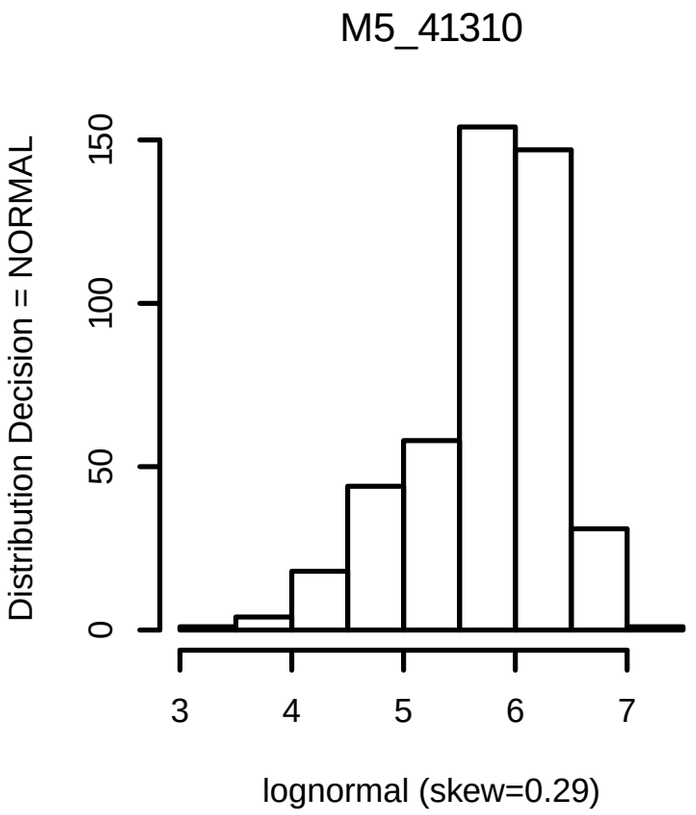

M5_23993
Distribution Decision = NORMAL
0
50
100
150
0
500
1000
1500
normal (skew=0.093)

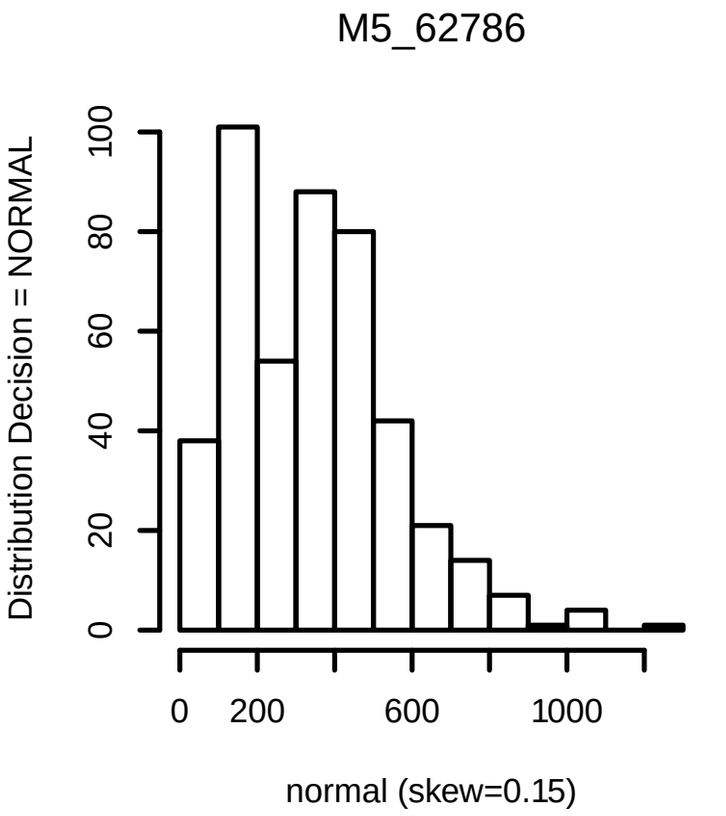

M5_23993
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.14)

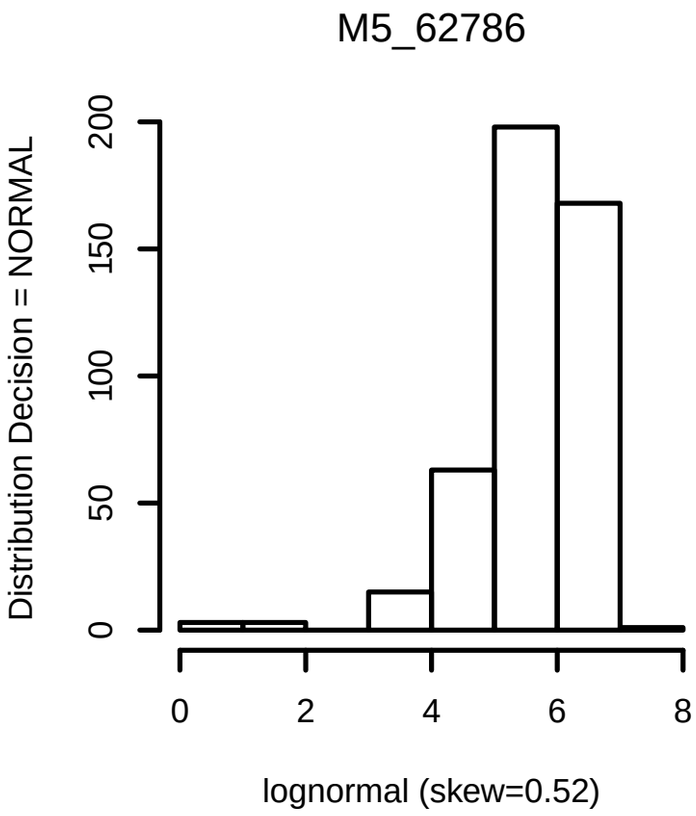

M5_23618
Distribution Decision = LOGNORMAL
0
50
150
250
350
0
2000
4000
6000
8000
normal (skew=1)

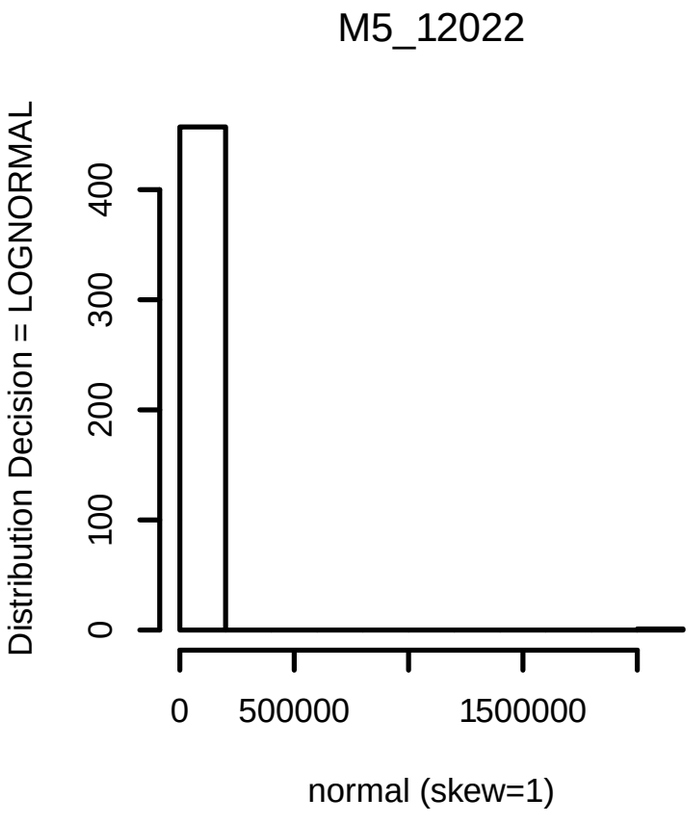

M5_23618
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
2
4
6
8
lognormal (skew=0.44)

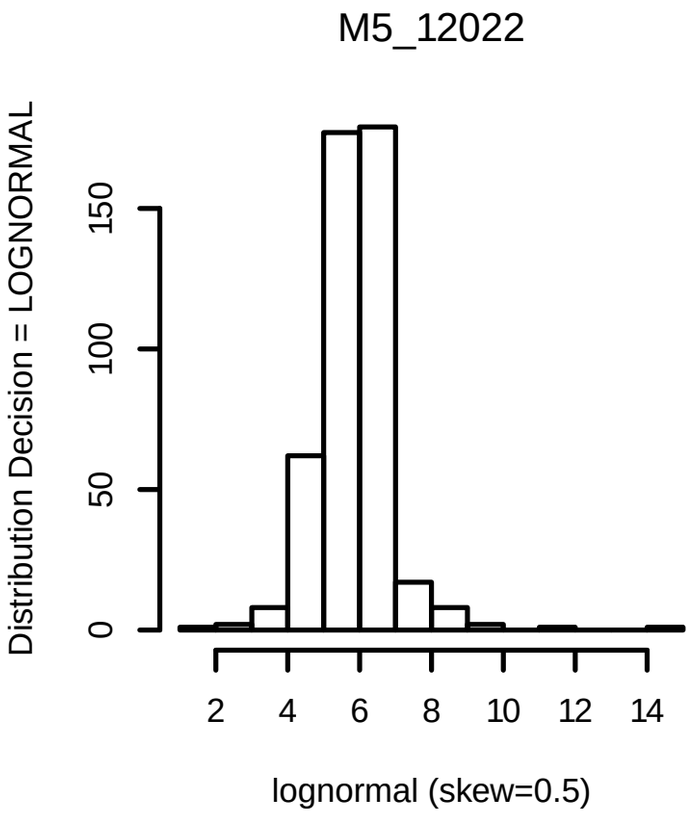

M5_41310
Distribution Decision = NORMAL
0
20
40
60
80
100
0
200
600
1000
1400
normal (skew=0.22)

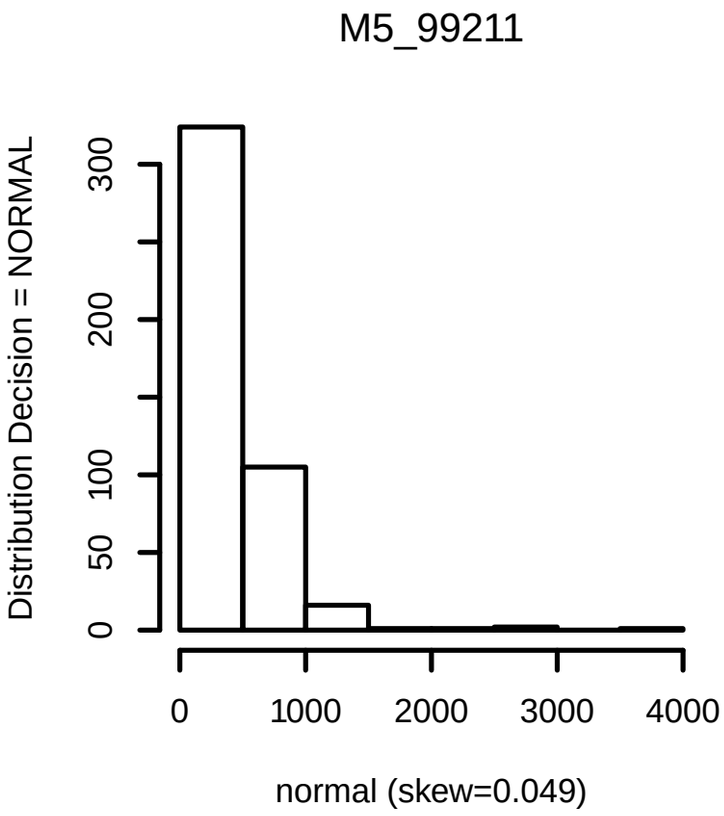

M5_41310
Distribution Decision = NORMAL
0
50
100
150
3
4
5
6
7
lognormal (skew=0.29)

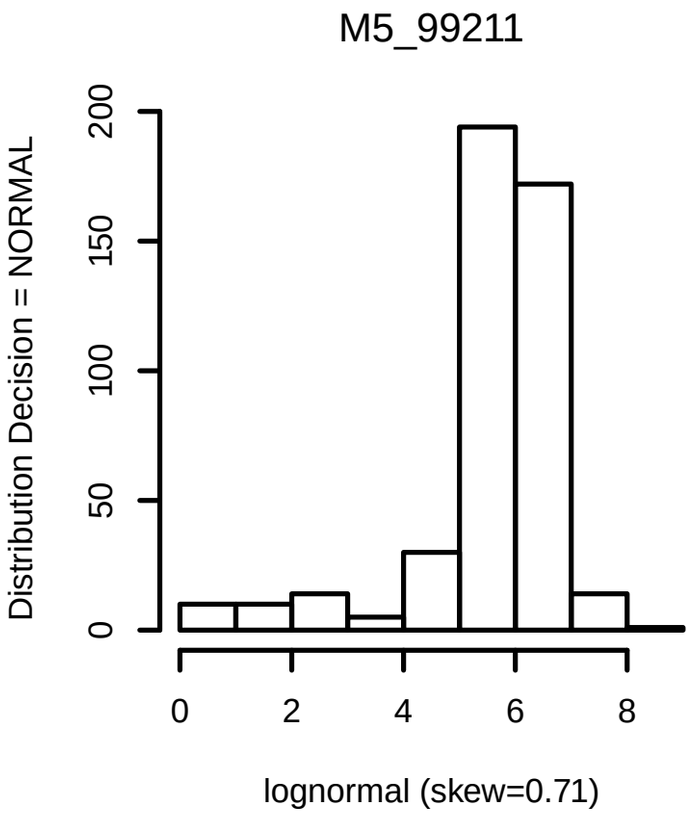

M5_62786
Distribution Decision = NORMAL
0
20
40
60
80
100
0
200
600
1000
normal (skew=0.15)

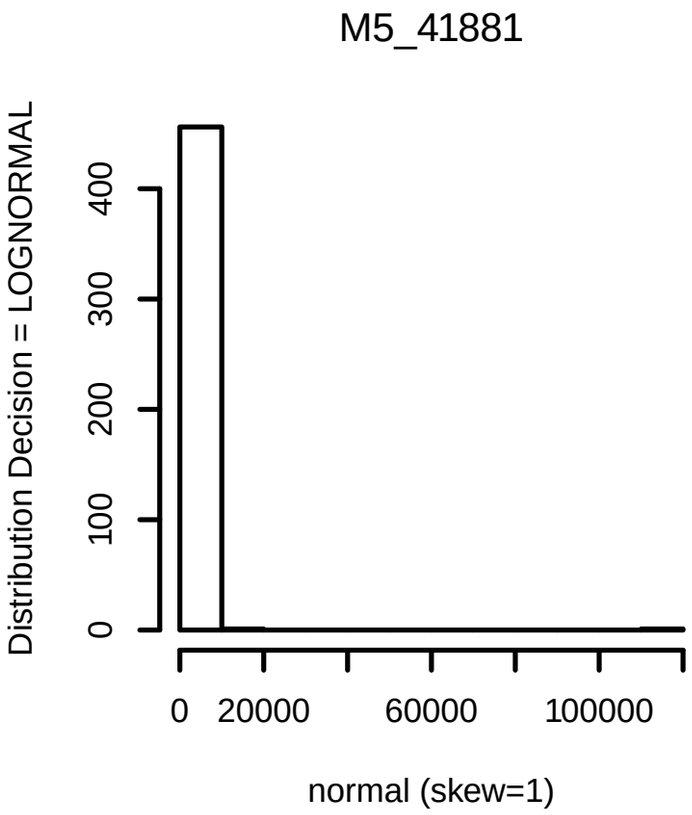

M5_62786
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.52)

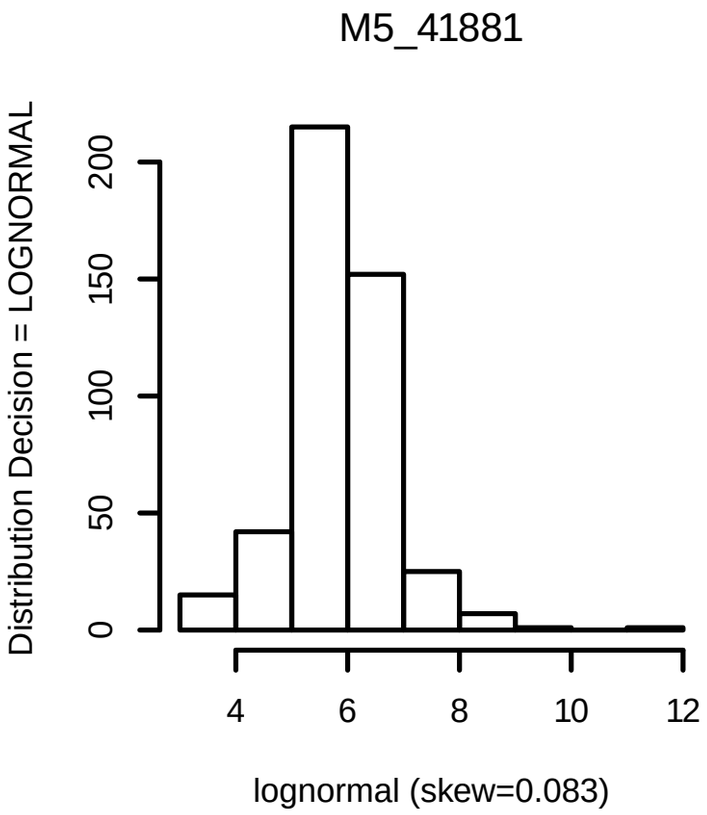

M5_12022
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
500000
1500000
normal (skew=1)

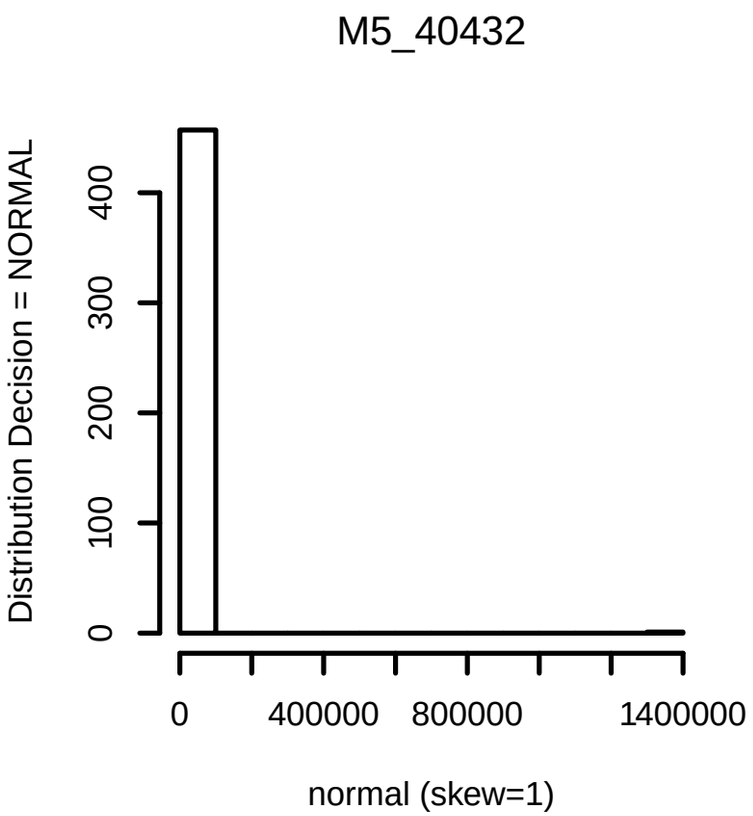

M5_12022
Distribution Decision = LOGNORMAL
0
50
100
150
2
4
6
8
10
12
14
lognormal (skew=0.5)

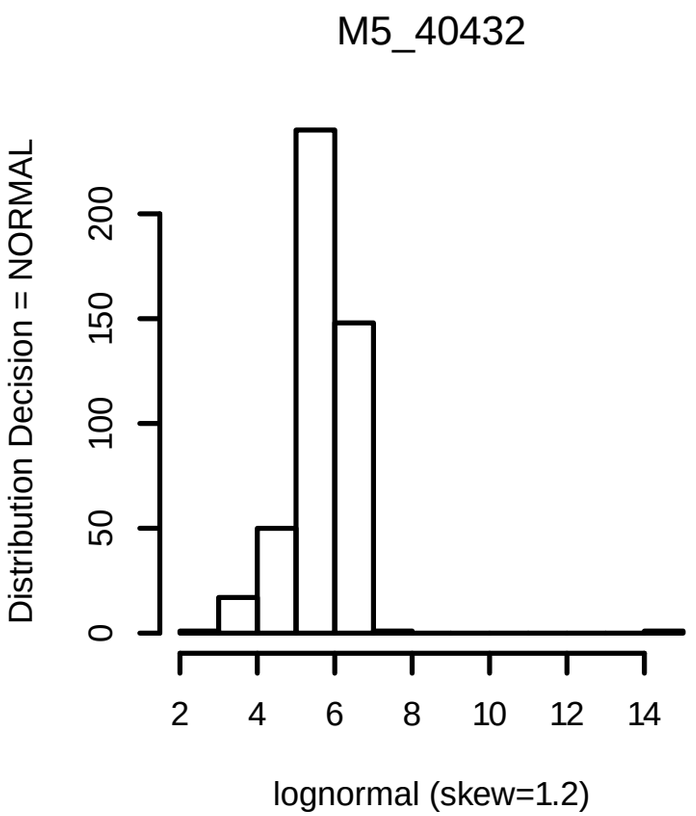

M5_99211
Distribution Decision = NORMAL
0
50
100
200
300
0
1000
2000
3000
4000
normal (skew=0.049)

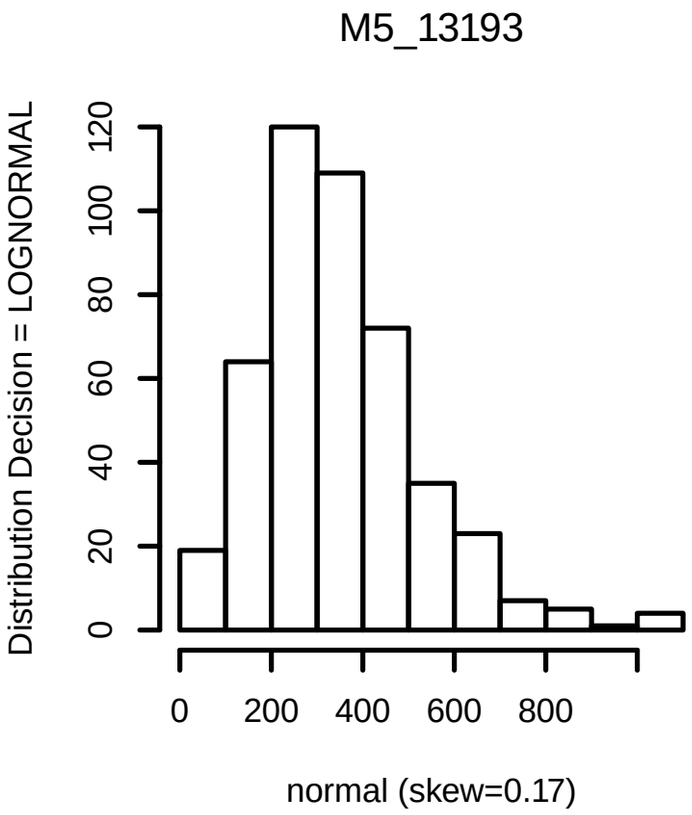

M5_99211
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.71)

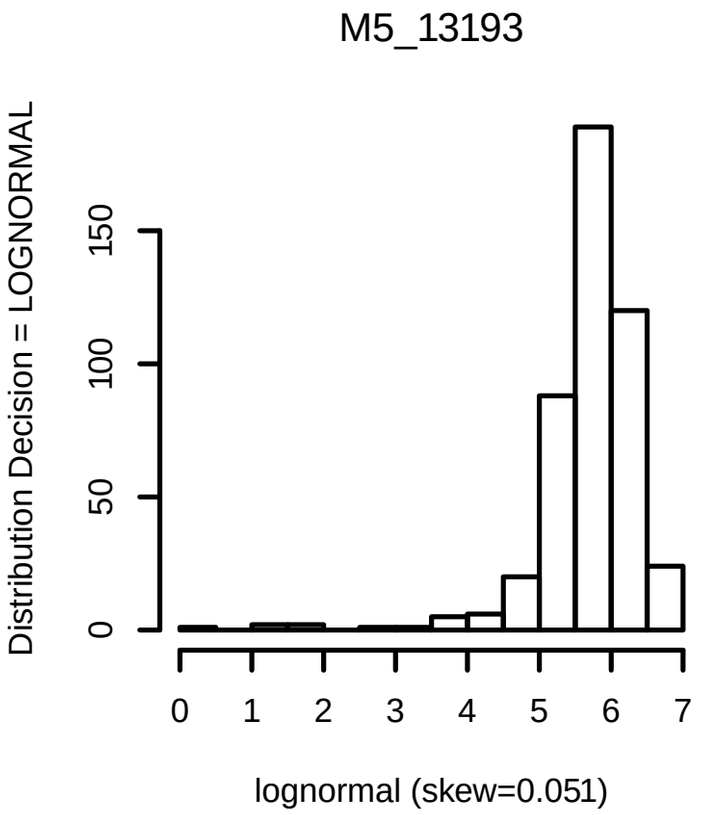

M5_41881
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
20000
60000
100000
normal (skew=1)

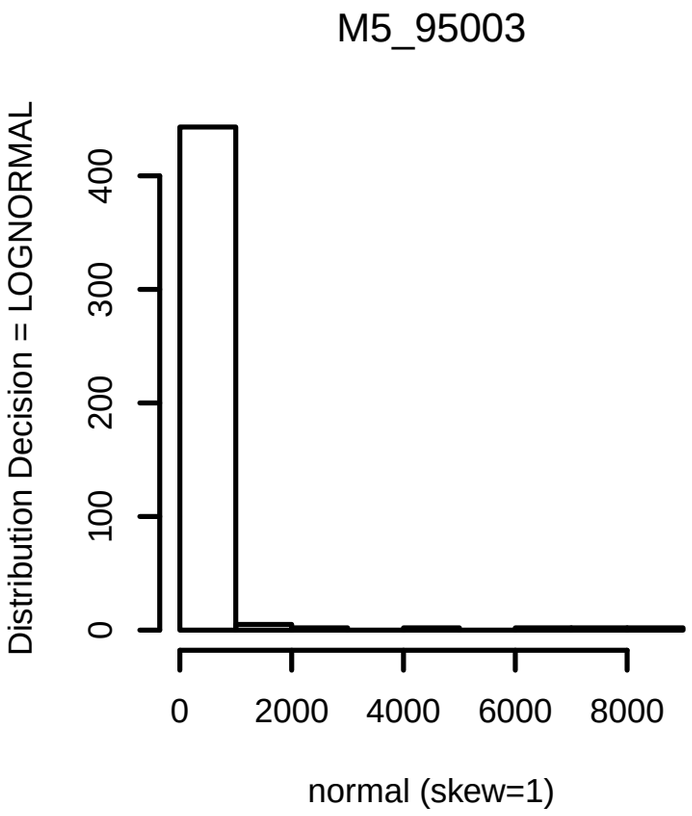

M5_41881
Distribution Decision = LOGNORMAL
0
50
100
150
200
4
6
8
10
12
lognormal (skew=0.083)

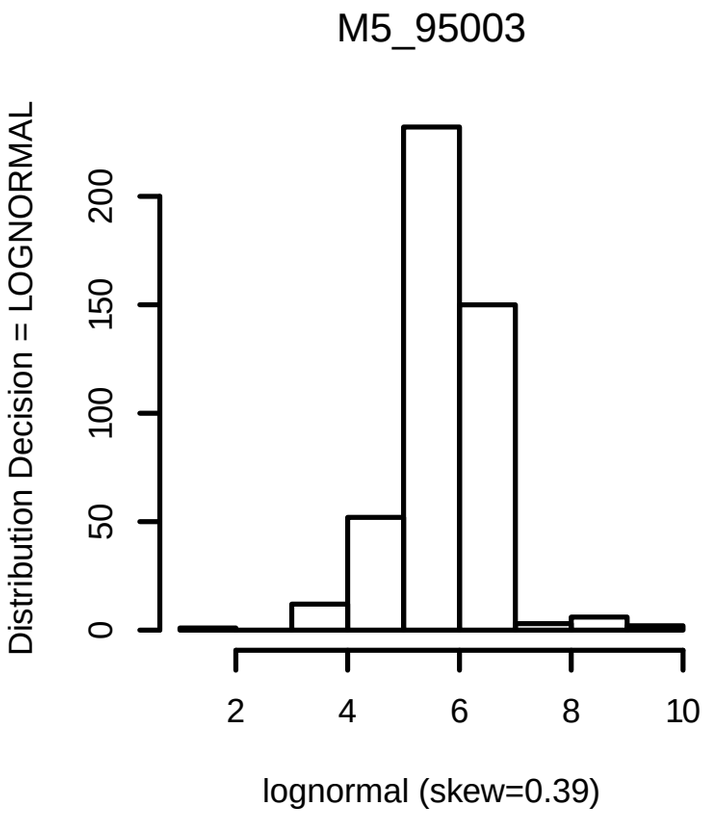

M5_40432
Distribution Decision = NORMAL
0
100
200
300
400
0
400000
800000
1400000
normal (skew=1)

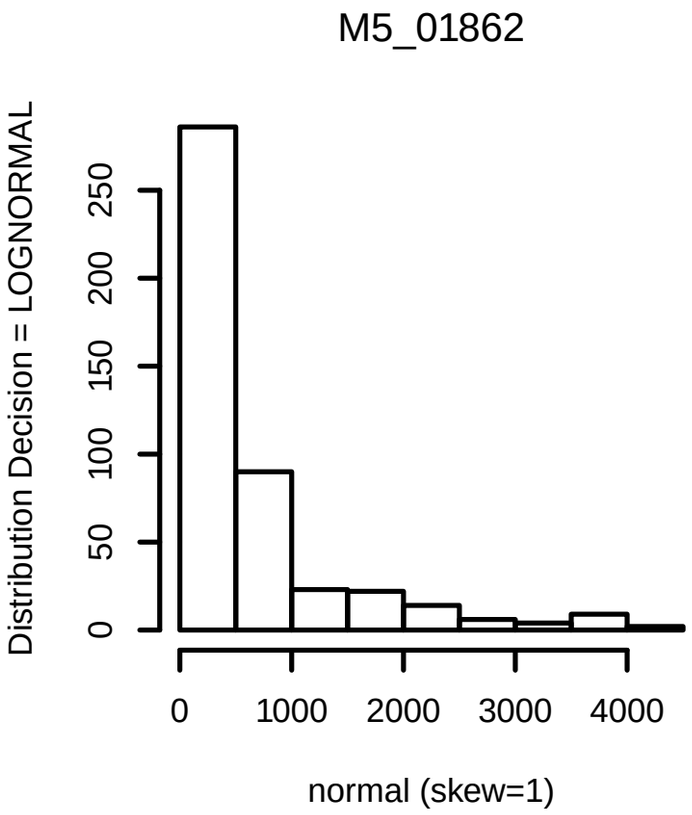

M5_40432
Distribution Decision = NORMAL
0
50
100
150
200
2
4
6
8
10
12
14
lognormal (skew=1.2)

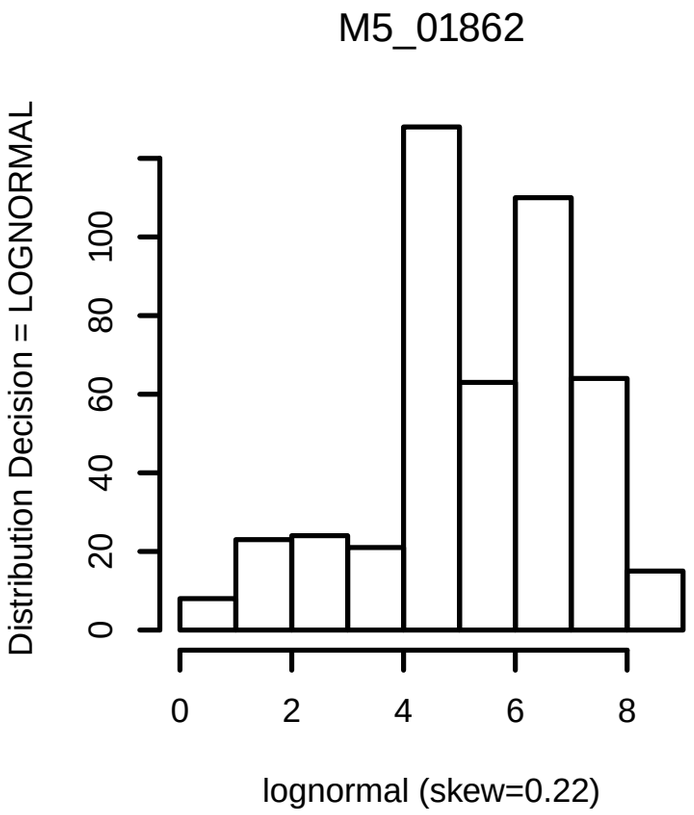

M5_13193
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
0
200
400
600
800
normal (skew=0.17)

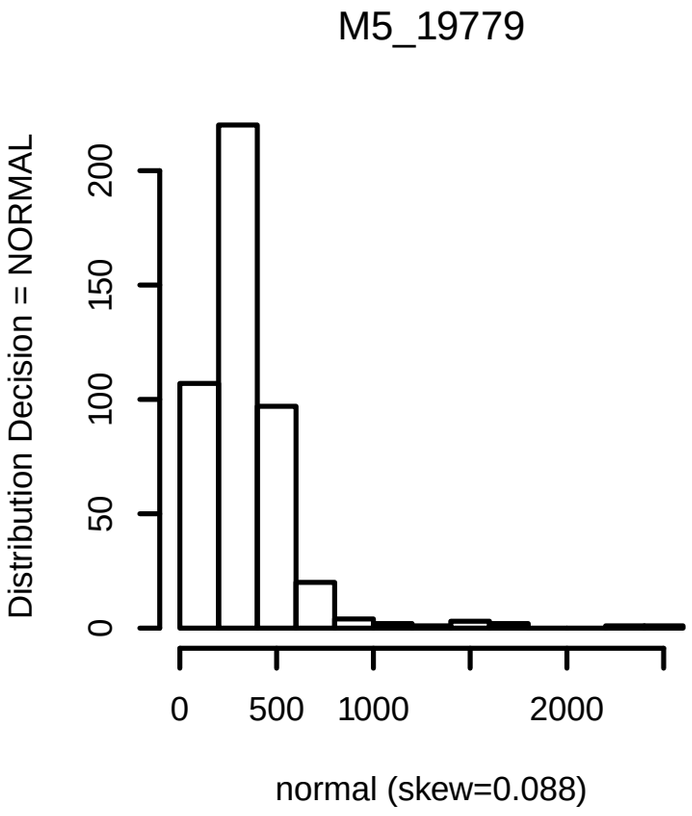

M5_13193
Distribution Decision = LOGNORMAL
0
50
100
150
0
1
2
3
4
5
6
7
lognormal (skew=0.051)

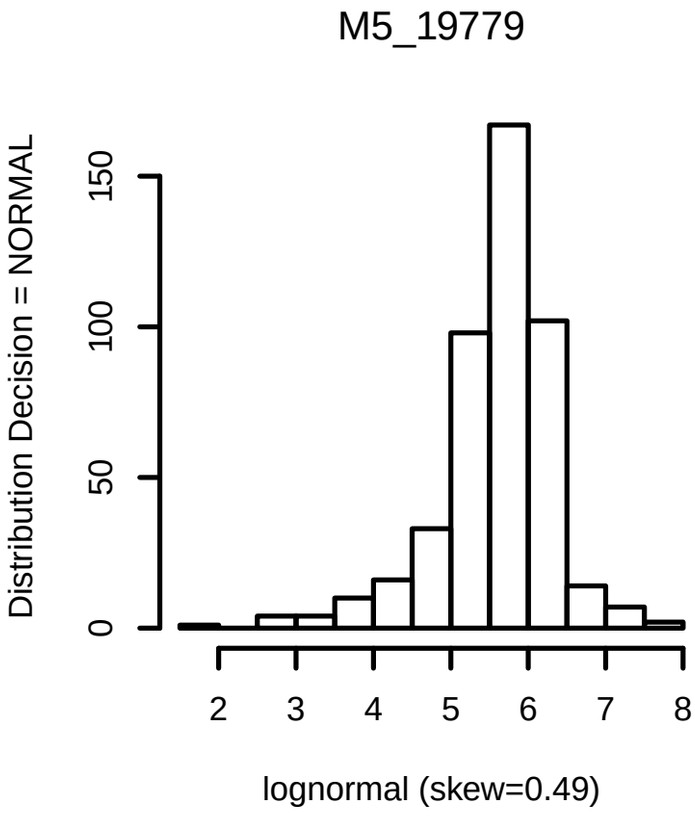

M5_95003
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
2000
4000
6000
8000
normal (skew=1)

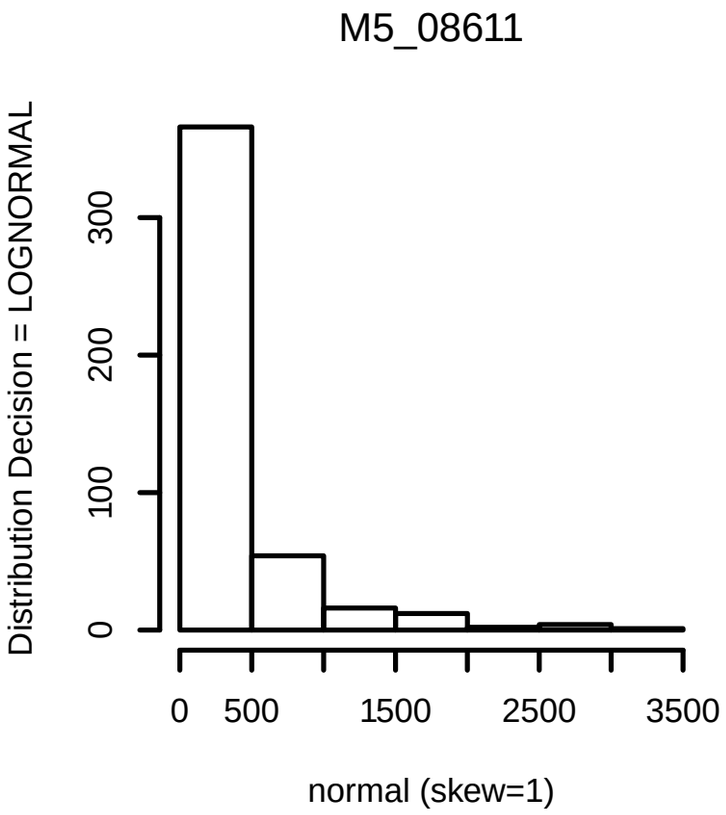

M5_95003
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
10
lognormal (skew=0.39)

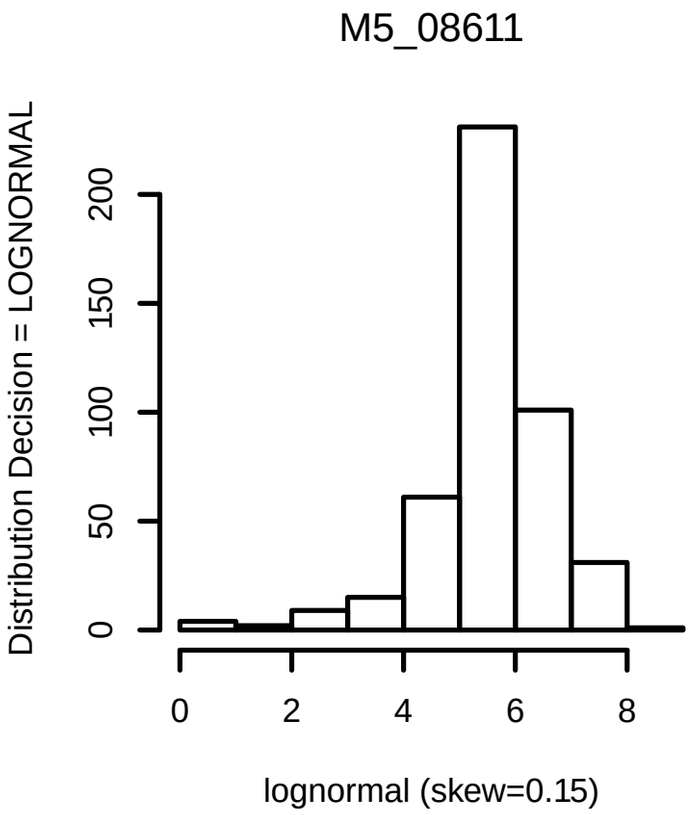

M5_01862
Distribution Decision = LOGNORMAL
0
50
100
150
200
250
0
1000
2000
3000
4000
normal (skew=1)

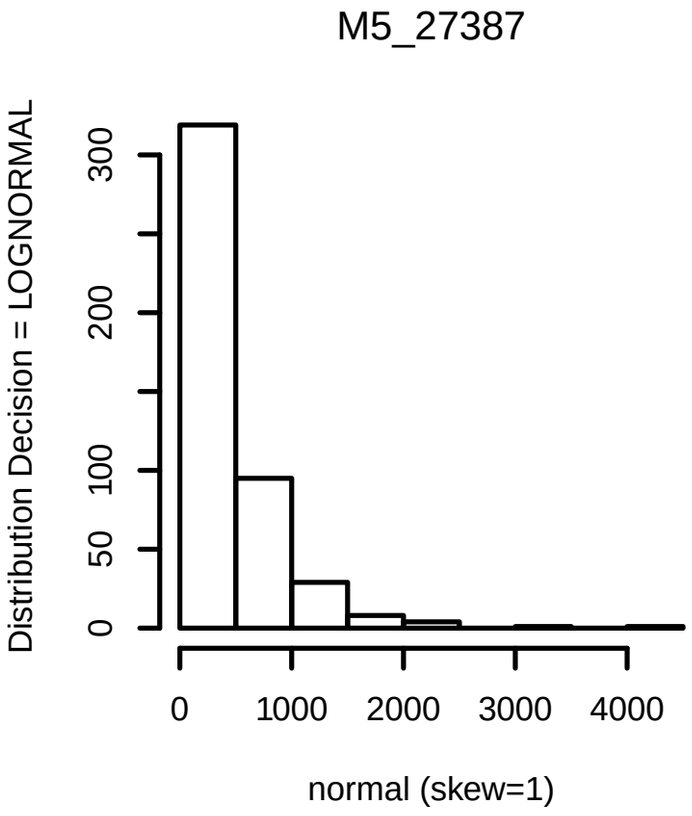

M5_01862
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
2
4
6
8
lognormal (skew=0.22)

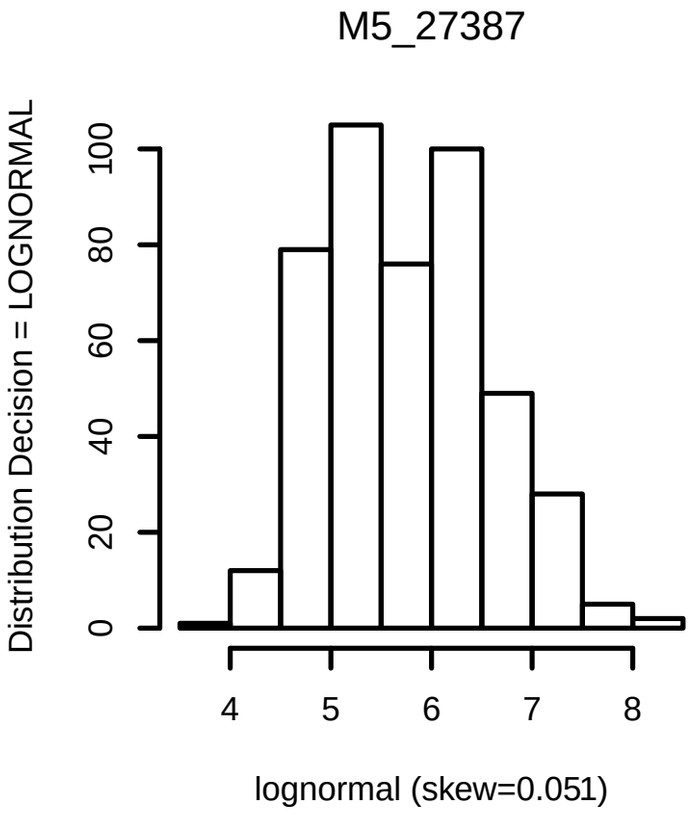

M5_19779
Distribution Decision = NORMAL
0
50
100
150
200
0
500
1000
2000
normal (skew=0.088)

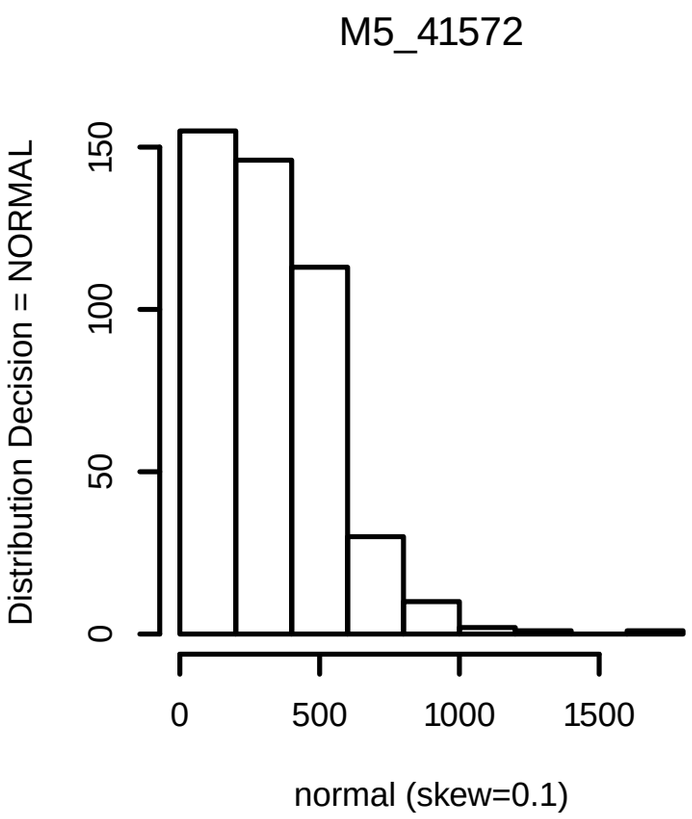

M5_19779
Distribution Decision = NORMAL
0
50
100
150
2
3
4
5
6
7
8
lognormal (skew=0.49)

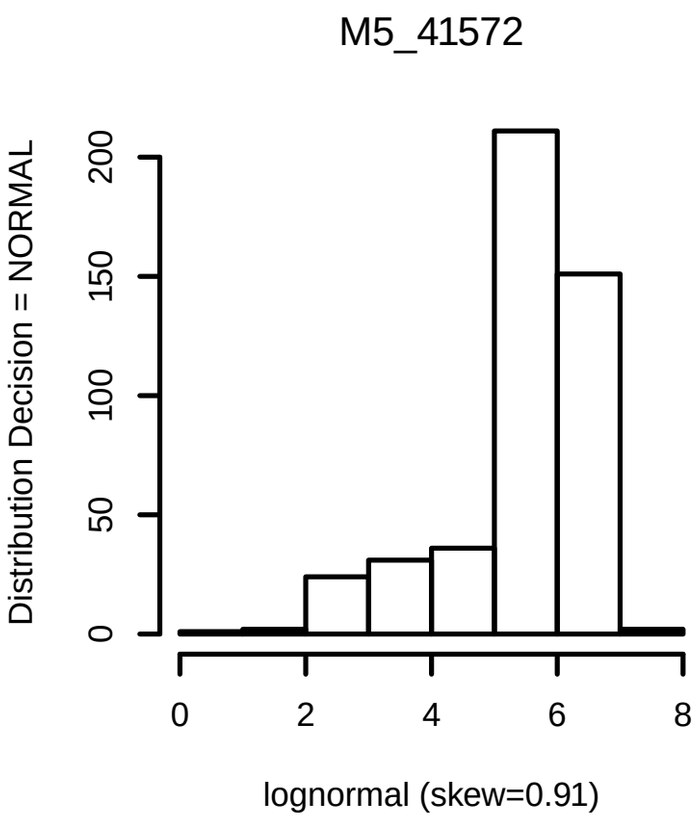

M5_08611
Distribution Decision = LOGNORMAL
0
100
200
300
0
500
1500
2500
3500
normal (skew=1)

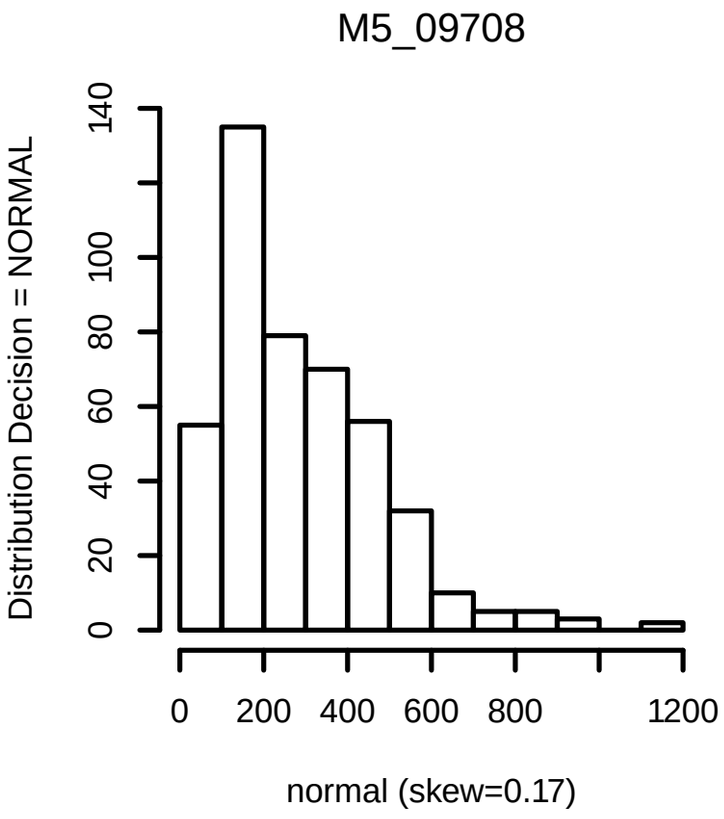

M5_08611
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.15)

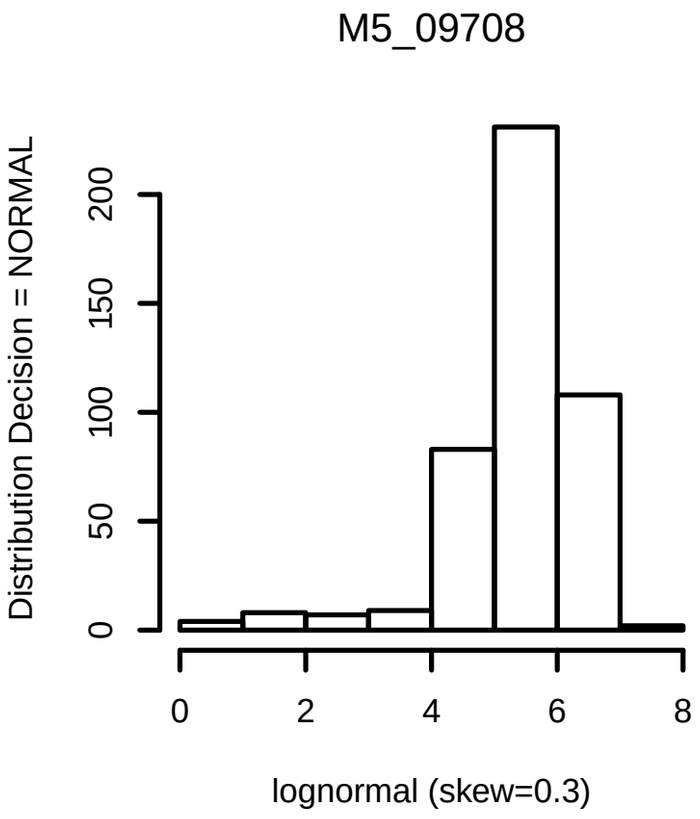

M5_27387
Distribution Decision = LOGNORMAL
0
50
100
200
300
0
1000
2000
3000
4000
normal (skew=1)

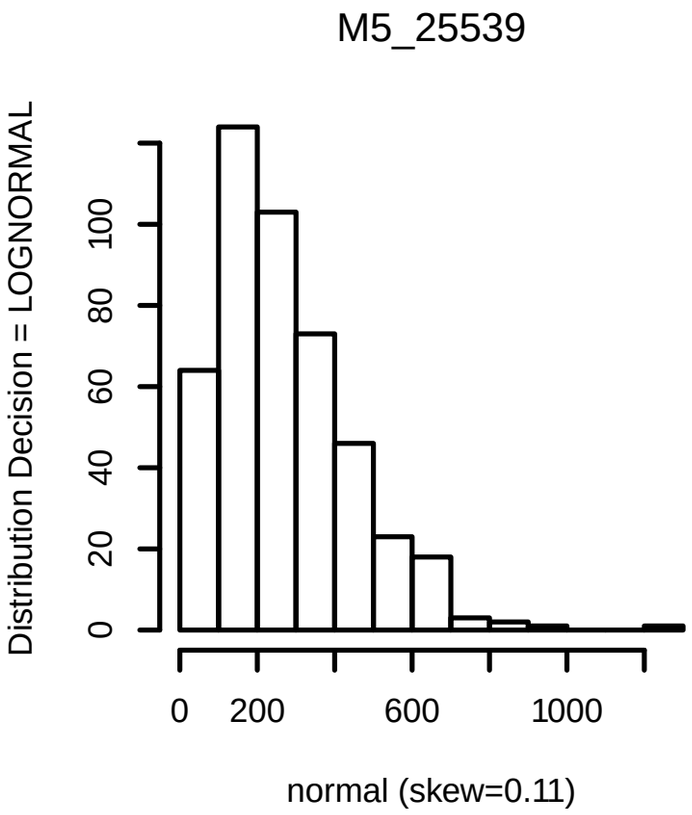

M5_27387
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
4
5
6
7
8
lognormal (skew=0.051)

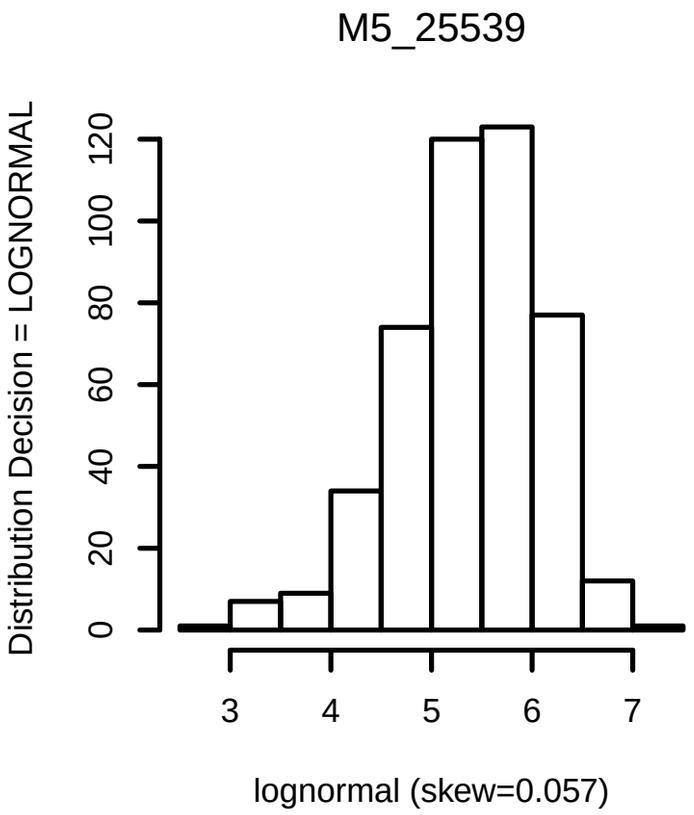

M5_41572
Distribution Decision = NORMAL
0
50
100
150
0
500
1000
1500
normal (skew=0.1)

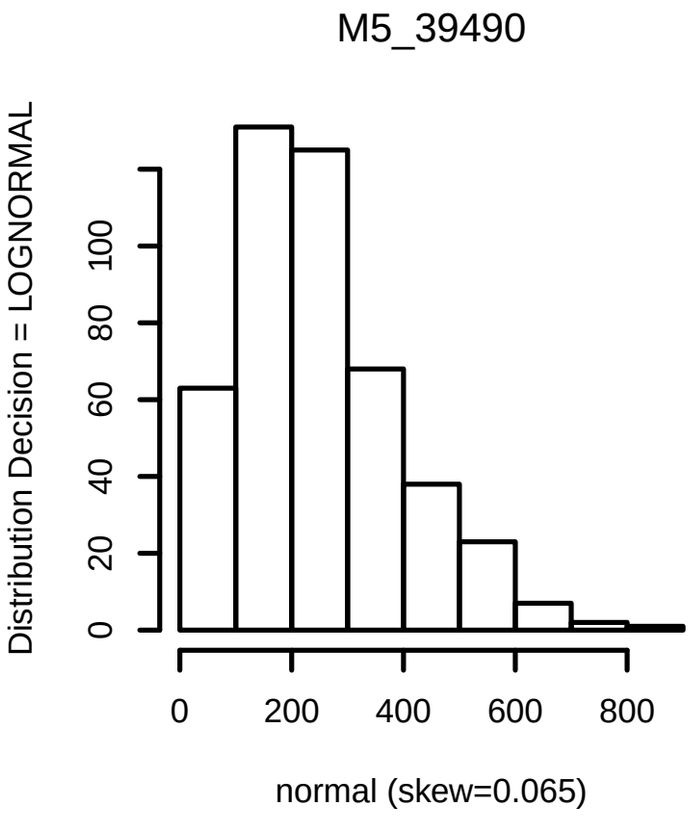

M5_41572
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.91)

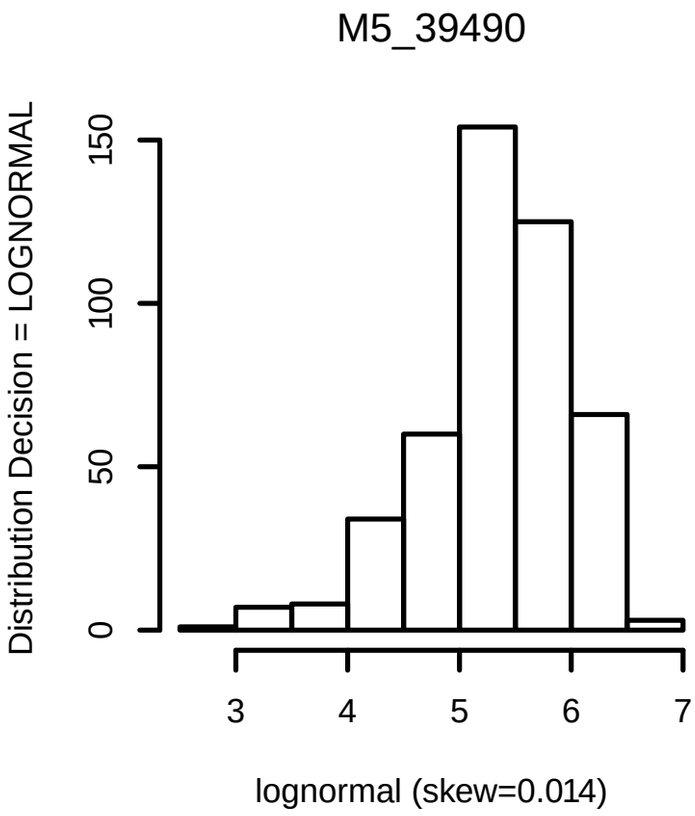

M5_09708
Distribution Decision = NORMAL
0
20
40
60
80
100
140
0
200
400
600
800
1200
normal (skew=0.17)

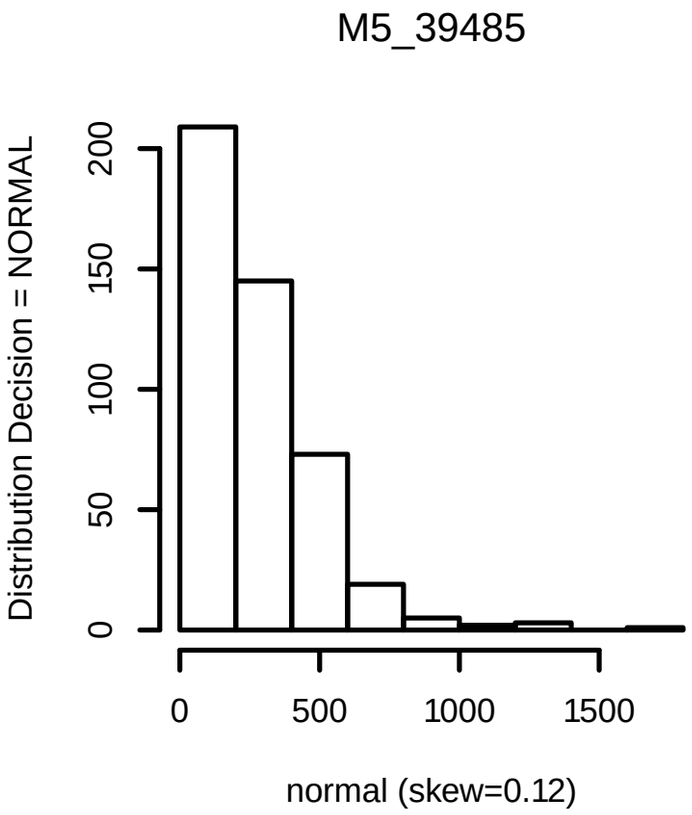

M5_09708
Distribution Decision = NORMAL
0
50
100
150
200
0
2
4
6
8
lognormal (skew=0.3)

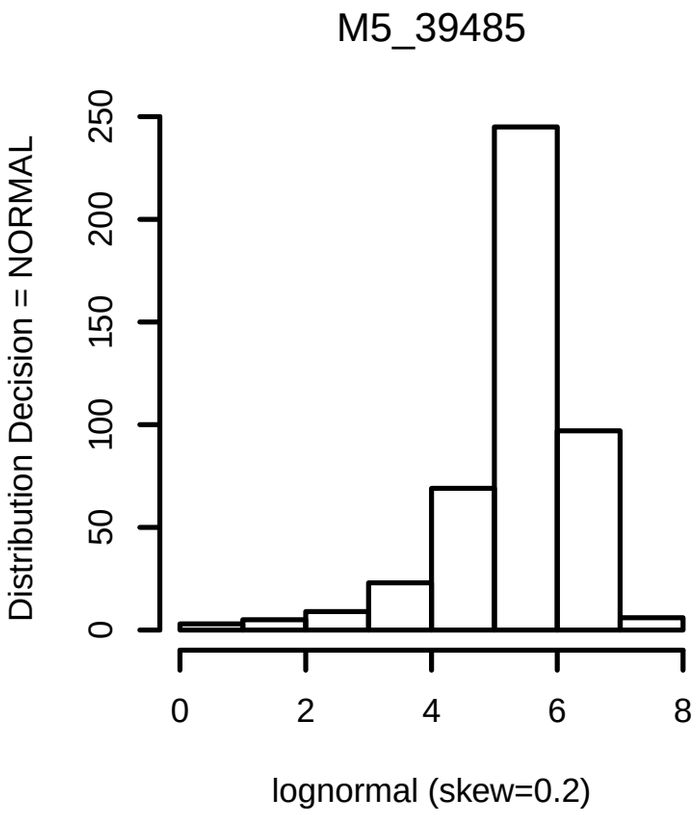

M5_25539
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
200
600
1000
normal (skew=0.11)

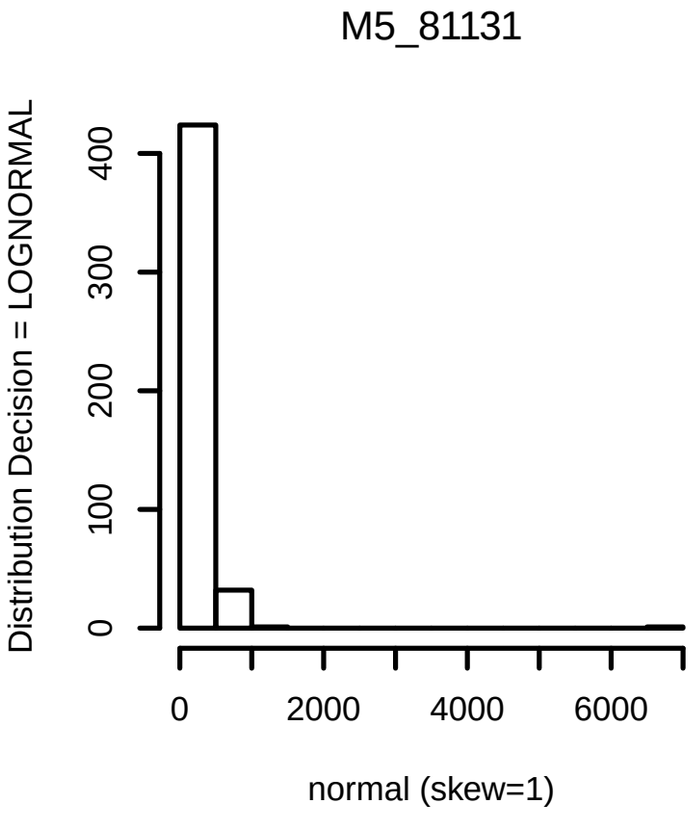

M5_25539
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
120
3
4
5
6
7
lognormal (skew=0.057)

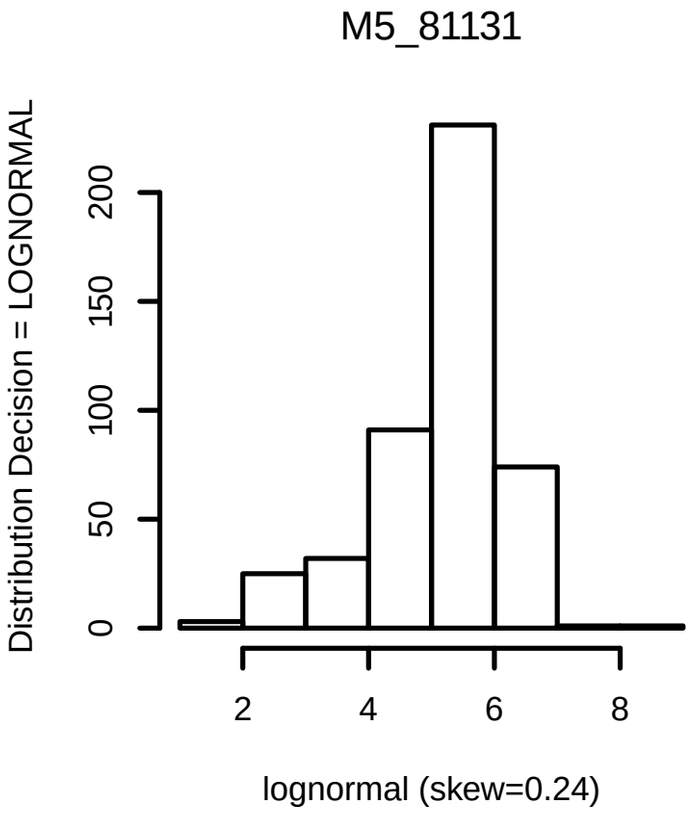

M5_39490
Distribution Decision = LOGNORMAL
0
20
40
60
80
100
0
200
400
600
800
normal (skew=0.065)

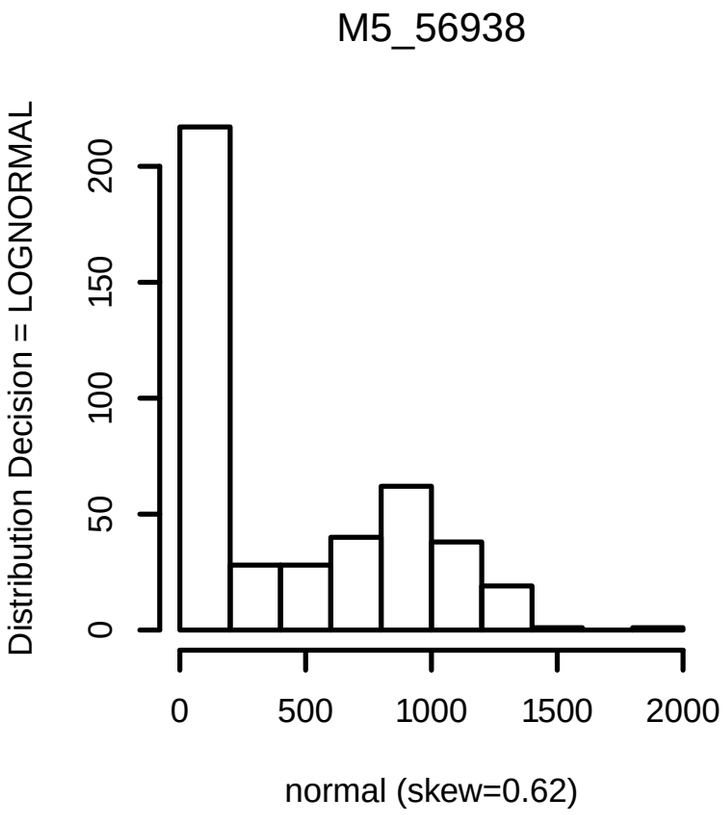

M5_39490
Distribution Decision = LOGNORMAL
0
50
100
150
3
4
5
6
7
lognormal (skew=0.014)

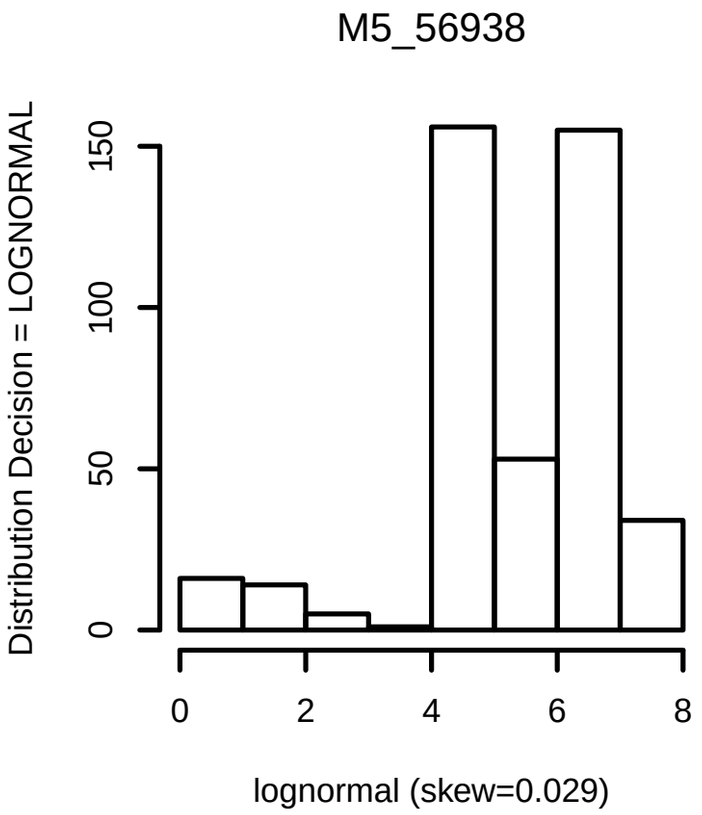

M5_39485
Distribution Decision = NORMAL
0
50
100
150
200
0
500
1000
1500
normal (skew=0.12)


M5_39485
Distribution Decision = NORMAL
0
50
100
150
200
250
0
2
4
6
8
lognormal (skew=0.2)


M5_81131
Distribution Decision = LOGNORMAL
0
100
200
300
400
0
2000
4000
6000
normal (skew=1)


M5_81131
Distribution Decision = LOGNORMAL
0
50
100
150
200
2
4
6
8
lognormal (skew=0.24)


M5_56938
Distribution Decision = LOGNORMAL
0
50
100
150
200
0
500
1000
1500
2000
normal (skew=0.62)


M5_56938
Distribution Decision = LOGNORMAL
0
50
100
150
0
2
4
6
8
lognormal (skew=0.029)