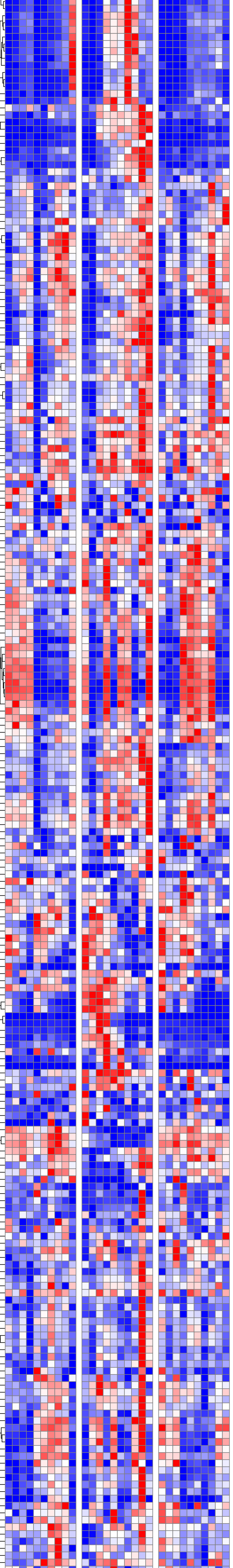


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Annotation-1



Annotation	Annotation-1
glutamine	Amino acid
beta-alanine	Amino acid
pyroglutamine*	Amino acid
alanine	Amino acid
3-indoxyl sulfate	Amino acid
p-cresol sulfate	Amino acid
phenylalanine	Amino acid
tyrosine	Amino acid
glutaroyl carnitine	Amino acid
lysine	Amino acid
3-methyl-2-oxobutyrate	Amino acid
tryptophan betaine	Amino acid
3-methyl-2-oxovalerate	Amino acid
2-palmitoylglycerophosphocholine*	Lipid
1-arachidonoylglycerophosphoethanolamine*	Lipid
nicotinamide adenine dinucleotide (NAD+)	Cofactors and vitamins
maltose	Carbohydrate
myristoleate (14:1n5)	Lipid
2-hydroxybutyrate (AHB)	Amino acid
spermidine	Amino acid
creatine	Amino acid
adenosine 5'-monophosphate (AMP)	Nucleotide
cis-vaccenate (18:1n7)	Lipid
docosapentaenoate (n3 DPA; 22:5n3)	Lipid
xylulose	Carbohydrate
xylofuranose	Carbohydrate
terephthalic acid	Xenobiotics
erythritol	Xenobiotics
malonate (17:0)	Lipid
ornithine	Amino acid
5-oxoproline	Amino acid
S-methylglutathione	Amino acid
ribitol	Carbohydrate
ribose 5-phosphate	Carbohydrate
Isobar: ribulose 5-phosphate, xylulose 5-phosphate	Carbohydrate
1-myristoylglycerophosphocholine	Lipid
cysteine	Amino acid
S-methylcysteine	Amino acid
gamma-glutamylleucine	Peptide
threonine	Amino acid
betaine	Amino acid
glycodeoxycholate	Lipid
urate	Nucleotide
glycine	Amino acid
2-ethylhexanoate (isobar with 2-propylpentanoate)	Xenobiotics
lactate	Carbohydrate
heptanoate (7:0)	Lipid
trans-4-hydroxyproline	Amino acid
2-methylbutyrylcarnitine	Amino acid
erucamide	Lipid
10-heptadecenoate (17:1n7)	Lipid
glycerophosphorylcholine (GPC)	Lipid
serine	Amino acid
ribulose	Carbohydrate
arabitol	Carbohydrate
butyrylcarnitine	Lipid
deoxycarnitine	Lipid
palmitoylcarnitine	Lipid
2-docosahexaenoylglycerophosphoethanolamine*	Lipid
biliverdin	Cofactors and vitamins
1-linoleoylglycerophosphocholine	Lipid
androsterone sulfate	Lipid
15-methylpalmitate (isobar with 2-methylpalmitate)	Lipid
alpha-hydroxyisocaproate	Amino acid
isobutyrylcarnitine	Amino acid
3-phosphoglycerate	Carbohydrate
trehalose	Carbohydrate
2-stearoylglycerophosphocholine*	Lipid
1-palmitoylglycerol (1-monopalmitin)	Lipid
piperine	Xenobiotics
2-hydroxyglutarate	Lipid
1-stearoylglycerophosphocholine	Lipid
sedoheptulose-7-phosphate	Carbohydrate
linolenate (alpha or gamma; (18:3n3 or 6))	Lipid
glycochenodeoxycholate	Lipid
Isobar: sorbitol, mannitol	Carbohydrate
1,6-anhydroglucose	Carbohydrate
isomaltose	Carbohydrate
pyruvate	Carbohydrate
1-oleoylglycerophosphoethanolamine	Lipid
methionine	Amino acid
erythronate*	Carbohydrate
phenol sulfate	Amino acid
pyrophosphate (PPi)	Energy
glutathione, oxidized (GSSG)	Amino acid
glycocholate	Lipid
2-aminobutyrate	Amino acid
S-adenosylhomocysteine (SAH)	Amino acid
beta-sitosterol	Lipid
mannose-6-phosphate	Carbohydrate
fructose	Carbohydrate
N-6-trimethyllysine	Amino acid
adenosine 5 diphosphoribose	Cofactors and vitamins
caprate (10:0)	Lipid
xylitol	Carbohydrate
caprylate (8:0)	Lipid
oleate (18:1n9)	Lipid
Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol 1,4 or 1,3-diphosphate	Carbohydrate
ratiidine	Xenobiotics
pelargonate (9:0)	Lipid
heme*	Cofactors and vitamins
eracthioneine	Xenobiotics
hypoxanthine	Nucleotide
trigonelline (N'-methylnicotinate)	Cofactors and vitamins
arabonate	Cofactors and vitamins
phosphoethanolamine	Lipid
6-phosphoaluronate	Carbohydrate
1-palmitoylglycerophosphoethanolamine	Lipid
fumarate	Energy
3-dehydrocarnitine*	Lipid
9,10-epoxystearate	Lipid
propionylcarnitine	Lipid
dihomo-linoleate (20:2n6)	Lipid
uridine	Nucleotide
kvnurenine	Amino acid
paraxanthine	Xenobiotics
glucose-6-phosphate (G6P)	Carbohydrate
phosphoenolpyruvate (PEP)	Carbohydrate
stachydrine	Xenobiotics
theobromine	Xenobiotics
catechol sulfate	Xenobiotics
glycerol 3-phosphate (G3P)	Lipid
7-beta-hydroxycholesterol	Lipid
dihydroxycetone phosphate (DHAP)	Carbohydrate
caproate (6:0)	Lipid
adenine	Nucleotide
arabinose	Carbohydrate
C-glycosyltryptophan*	Amino acid
alutamide	Amino acid
9,10-epoxystearate (12(Z)-E)-enoic acid	Lipid
homostachydrine*	Xenobiotics
homocysteine	Amino acid
phenylacetylglutamine	Amino acid
1,5-anhydroglucitol (1,5-AG)	Carbohydrate
1,3-dihydroxyacetone	Carbohydrate
linoleate (18:2n6)	Lipid
dihomo-linolenate (20:3n3 or n6)	Lipid
oleoylcarnitine	Lipid
inosine 5'-monophosphate (IMP)	Nucleotide
2-arachidonoylglycerophosphoethanolamine*	Lipid
eicosapentaenoate (EPA; 20:5n3)	Lipid
malate	Energy
N-acetylmethionine	Amino acid
4-methyl-2-oxopentanoate	Amino acid
pipecolate	Amino acid
stearoyl sphingomyelin	Lipid
threitol	Carbohydrate
mead acid (20:3n9)	Lipid
docosahexaenoate (DHA; 22:6n3)	Lipid
arachidonate (20:4n6)	Lipid
adenosine 5'-diphosphate (ADP)	Nucleotide
beta-hydroxybutyrate	Amino acid
quanosine	Nucleotide
theophylline	Xenobiotics
adrenate (22:4n6)	Lipid
azelate (nonanedioate)	Lipid
threonate	Cofactors and vitamins
urea	Amino acid
mannose	Carbohydrate
1,2-propanediol	Lipid
2-hydroxypalmitate	Lipid
lathosterol	Lipid
leucine	Amino acid
valine	Amino acid
alpha-hydroxyisovalerate	Amino acid
phosphate	Energy
proline	Amino acid
cis-aconitate	Energy
palmitoyl sphingomyelin	Lipid
allantoin	Nucleotide
aspartate	Amino acid
histidine	Amino acid
asparagine	Amino acid
tryptophan	Amino acid
hydroxyisovaleryl carnitine	Amino acid
citruilline	Amino acid
palmitate (16:0)	Lipid
stearoylcarnitine	Lipid
glycerate	Carbohydrate
pentadecanoate (15:0)	Lipid
2-oleoylglycerophosphocholine*	Lipid
dimethylglycine	Amino acid
citrate	Energy
2-docosapentaenoylglycerophosphoethanolamine*	Lipid
carnitine	Lipid
N-acetylneuraminic acid	Carbohydrate
glutathione, reduced (GSH)	Amino acid
N-acetylglycine	Amino acid
laurate (12:0)	Lipid
hexanoylcarnitine	Energy
acetylphosphate	Energy
fructose-6-phosphate	Carbohydrate
1-palmitoylglycerophosphocholine	Lipid
acetylcarnitine	Lipid
5-methylthioadenosine (MTA)	Amino acid
hippurate	Xenobiotics
isovalerylcarnitine	Amino acid
choline	Lipid
arginine	Amino acid
myristate (14:0)	Lipid
glucose	Carbohydrate
palmitoleate (16:1n7)	Lipid
creatinine	Amino acid
2,3-diphosphoglycerate	Carbohydrate
isoleucine	Amino acid
1-oleoylglycerophosphocholine	Lipid
2-arachidonoylglycerophosphocholine*	Lipid
pseudouridine	Nucleotide
glycolate (hydroxyacetate)	Xenobiotics
13-methylmristic acid	Lipid
ophthalmate	Amino acid
alpha-tocopherol	Cofactors and vitamins
nicotinamide	Cofactors and vitamins
caffeine	Xenobiotics
adenosine	Nucleotide
N1-Methyl-2-pyridone-5-carboxamide	Cofactors and vitamins
stearate (18:0)	Lipid
ethanolamine	Lipid
succinylcarnitine	Energy
octanoylcarnitine	Lipid
campesterol	Lipid
2-linoleoylglycerophosphocholine*	Lipid
myo-inositol	Lipid
cholesterol	Lipid
pantothenate	Cofactors and vitamins

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	CAS	KEGG
905	1,2-propanediol	Lipid	Ketone bodies	57-55-6;	C00717,C02912,C00583,C01506,C02917
532	1,3-dihydroxyacetone	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	62147-49-3;	C00184
515	1,5-anhydroglucitol (1,5-AG)	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	154-58-5;	C07326
523	1,6-anhydroglucose	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	498-07-7;	
636	10-heptadecenoate (17:1n7)	Lipid	Long chain fatty acid	29743-97-3;	
742	13-methylmyristic acid	Lipid	Fatty acid, branched	2485-71-4;	
744	15-methylpalmitate (isobar with 2-methylpalmitate)	Lipid	Fatty acid, branched		
919	1-arachidonoylglycerophosphoethanolamine*	Lipid	Lysolipid		
938	1-linoleoylglycerophosphocholine	Lipid	Lysolipid		C04100
926	1-myristoylglycerophosphocholine	Lipid	Lysolipid	20559-16-4;	
936	1-oleoylglycerophosphocholine	Lipid	Lysolipid	19420-56-5;	
915	1-oleoylglycerophosphoethanolamine	Lipid	Lysolipid		
970	1-palmitoylglycerol (1-monopalmitin)	Lipid	Monoacylglycerol	542-44-9;	
929	1-palmitoylglycerophosphocholine	Lipid	Lysolipid	17364-16-8;	
909	1-palmitoylglycerophosphoethanolamine	Lipid	Lysolipid		
934	1-stearoylglycerophosphocholine	Lipid	Lysolipid	19420-57-6;	
533	2,3-diphosphoglycerate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	102783-53-9;	C01159
263	2-aminobutyrate	Amino acid	Butanoate metabolism	1492-24-6;	C02261
945	2-arachidonoylglycerophosphocholine*	Lipid	Lysolipid		
920	2-arachidonoylglycerophosphoethanolamine*	Lipid	Lysolipid		
923	2-docosahexaenoylglycerophosphoethanolamine*	Lipid	Lysolipid		
922	2-docosapentaenoylglycerophosphoethanolamine*	Lipid	Lysolipid		
1360	2-ethylhexanoate (isobar with 2-propylpentanoate)	Xenobiotics	Chemical		
229	2-hydroxybutyrate (AHB)	Amino acid	Cysteine, methionine, SAM, taurine metabolism	3347-90-8;	C05984
714	2-hydroxyglutarate	Lipid	Fatty acid, dicarboxylate	40951-21-1;	C02630
706	2-hydroxypalmitate	Lipid	Fatty acid, monohydroxy	764-67-0;	
939	2-linoleoylglycerophosphocholine*	Lipid	Lysolipid		

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	CAS	KEGG
202	2-methylbutyrylcarnitine	Amino acid	Valine, leucine and isoleucine metabolism	31023-25-3;	
937	2-oleoylglycerophosphocholine*	Lipid	Lysolipid		
930	2-palmitoylglycerophosphocholine*	Lipid	Lysolipid		
935	2-stearoylglycerophosphocholine*	Lipid	Lysolipid		
821	3-dehydrocarnitine*	Lipid	Carnitine metabolism	10457-99-5;	C02636
170	3-indoxyl sulfate	Amino acid	Tryptophan metabolism	2642-37-7;	
172	3-methyl-2-oxobutyrate	Amino acid	Valine, leucine and isoleucine metabolism	3715-29-5;	C00141
173	3-methyl-2-oxovalerate	Amino acid	Valine, leucine and isoleucine metabolism	51829-07-3;	C00671
529	3-phosphoglycerate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	80731-10-8;	C00597
193	4-methyl-2-oxopentanoate	Amino acid	Valine, leucine and isoleucine metabolism	816-66-0;	C00233
266	5-methylthioadenosine (MTA)	Amino acid	Polyamine metabolism	2457-80-9;	C00170
282	5-oxoproline	Amino acid	Glutathione metabolism	98-79-3;	C01879
545	6-phosphogluconate	Carbohydrate	Nucleotide sugars, pentose metabolism	921-62-0;53411-70-4;	C00345
1024	7-beta-hydroxycholesterol	Lipid	Sterol/Steroid	566-27-8;	C03594
712.5	9,10-epoxyoctadec-12(Z)-enoic acid	Lipid	Long chain fatty acid		C14825
672	9,10-epoxystearate	Lipid	Fatty acid, oxidized		
822	acetylcarnitine	Lipid	Carnitine metabolism	5080-50-2;	C02571
601	acetylphosphate	Energy	Oxidative phosphorylation	94249-01-1;	C00227
1105	adenine	Nucleotide	Purine metabolism, adenine containing	73-24-5;	C00147
1106	adenosine	Nucleotide	Purine metabolism, adenine containing	58-61-7;	C00212
1116	adenosine 5'-diphosphate (ADP)	Nucleotide	Purine metabolism, adenine containing	20398-34-9;	C00008
1232	adenosine 5'diphosphoribose	Cofactors and vitamins	Nicotinate and nicotinamide metabolism	68414-18-6;	C00301
1114	adenosine 5'-monophosphate (AMP)	Nucleotide	Purine metabolism, adenine containing	149022-20-8;	C00020
665	adrenate (22:4n6)	Lipid	Long chain fatty acid	2091-25-0;	C16527

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	CAS	KEGG
27	alanine	Amino acid	Alanine and aspartate metabolism	56-41-7;	C00041
1150	allantoin	Nucleotide	Purine metabolism, urate metabolism	97-59-6;	C02350
179	alpha-hydroxyisocaproate	Amino acid	Valine, leucine and isoleucine metabolism	10303-64-7;	C03264
198	alpha-hydroxyisovalerate	Amino acid	Valine, leucine and isoleucine metabolism	600-37-3;	
1266	alpha-tocopherol	Cofactors and vitamins	Tocopherol metabolism	59-02-9;10191-41-0;	C02477
1034	androsterone sulfate	Lipid	Sterol/Steroid	2479-86-9 ;	C00523
566	arabinose	Carbohydrate	Nucleotide sugars, pentose metabolism	28697-53-2;	C00181
546	arabitol	Carbohydrate	Nucleotide sugars, pentose metabolism	488-82-4;	C00474
1202	arabonate	Cofactors and vitamins	Ascorbate and aldarate metabolism	7643-75-7;	
659	arachidonate (20:4n6)	Lipid	Long chain fatty acid	506-32-1;	C00219
241	arginine	Amino acid	Urea cycle; arginine-, proline-, metabolism	1119-34-2;	C00062
25	asparagine	Amino acid	Alanine and aspartate metabolism	70-47-3;	C00152
24	aspartate	Amino acid	Alanine and aspartate metabolism	56-84-8;	C00049
721	azelate (nonanedioate)	Lipid	Fatty acid, dicarboxylate	123-99-9;	C08261
26	beta-alanine	Amino acid	Alanine and aspartate metabolism	56-41-7;107-95-9;	C00099
7	beta-hydroxypyruvate	Amino acid	Glycine, serine and threonine metabolism	3369-79-7;	C00168
22	betaine	Amino acid	Glycine, serine and threonine metabolism	107-43-7;	
1057	beta-sitosterol	Lipid	Sterol/Steroid	83-46-5;	C01753
1216	biliverdin	Cofactors and vitamins	Hemoglobin and porphyrin metabolism	55482-27-4;55482-27-4 ;	C00500

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	CAS	KEGG
811	butyrylcarnitine	Lipid	Fatty acid metabolism (also BCAA metabolism)	25576-40-3;	
1612	caffeine	Xenobiotics	Xanthine metabolism	58-08-2;	C07481
1059	campesterol	Lipid	Sterol/Steroid	474-62-4;	C01789
622	caprate (10:0)	Lipid	Medium chain fatty acid	112-37-8;	C01571
618	caproate (6:0)	Lipid	Medium chain fatty acid	142-62-1;	C01585
620	caprylate (8:0)	Lipid	Medium chain fatty acid	124-07-2;	C06423
820	carnitine	Lipid	Carnitine metabolism	461-05-2;	
1300	catechol sulfate	Xenobiotics	Benzoate metabolism		C00090
164	C-glycosyltryptophan*	Amino acid	Tryptophan metabolism		
1020	cholesterol	Lipid	Sterol/Steroid	57-88-5;	C00187
881	choline	Lipid	Glycerolipid metabolism	67-48-1;	
582	cis-aconitate	Energy	Krebs cycle	585-84-2;	C00417
641	cis-vaccenate (18:1n7)	Lipid	Long chain fatty acid	693-72-1;	C08367
579	citrate	Energy	Krebs cycle	77-92-9;	C00158
248	citrulline	Amino acid	Urea cycle; arginine-, proline-, metabolism	372-75-8;	C00327
259	creatine	Amino acid	Creatine metabolism	57-00-1;	C00300
260	creatinine	Amino acid	Creatine metabolism	60-27-5;	C00791
213	cysteine	Amino acid	Cysteine, methionine, SAM, taurine metabolism	52-90-4;56-89-3;	C00097
819	deoxycarnitine	Lipid	Carnitine metabolism	6249-56-5;	C01181
655	dihomo-linoleate (20:2n6)	Lipid	Long chain fatty acid	2091-39-6;	C16525
609	dihomo-linolenate (20:3n3 or n6)	Lipid	Essential fatty acid		C03242
531	dihydroxyacetone phosphate (DHAP)	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	102783-56-2;	C00111
3	dimethylglycine	Amino acid	Glycine, serine and threonine metabolism	1118-68-9;	C01026
613	docosahexaenoate (DHA; 22:6n3)	Lipid	Essential fatty acid	6217-54-5;	C06429
611	docosapentaenoate (n3 DPA; 22:5n3)	Lipid	Essential fatty acid	2234-74-4 ;	C16513
610	eicosapentaenoate (EPA; 20:5n3)	Lipid	Essential fatty acid	10-2005-9;10417-94-4;	C06428
1565	ergothioneine	Xenobiotics	Food component/Plant	58511-63-0;	C05570
735	erucamide	Lipid	Fatty acid, amide	112-84-5;	
1632	erythritol	Xenobiotics	Sugar, sugar substitute, starch	149-32-6;	C00503
453	erythronate*	Carbohydrate	Aminosugars metabolism	13752-84-6;	

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	CAS	KEGG
876	ethanolamine	Lipid	Glycerolipid metabolism	141-43-5;	C00189
472	fructose	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	57-48-7;	C00095
524	fructose-6-phosphate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	103213-47-4;	C05345
594	fumarate	Energy	Krebs cycle	100-17-8;	C00122
404	gamma-glutamylleucine	Peptide	gamma-glutamyl	2566-39-4;	
521	glucose	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	50-99-7;	C00293
519	glucose-6-phosphate (G6P)	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	103192-55-8;	C00668
39	glutamate	Amino acid	Glutamate metabolism	56-86-0;	C00025
44	glutamine	Amino acid	Glutamate metabolism	56-85-9;	C00064
80	glutaroyl carnitine	Amino acid	Lysine metabolism	102636-82-8;	
283	glutathione, oxidized (GSSG)	Amino acid	Glutathione metabolism	103239-24-3;	C00127
280	glutathione, reduced (GSH)	Amino acid	Glutathione metabolism	70-18-8;	C00051
517	glycerate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	600-19-1;	C00258
882	glycerol 3-phosphate (G3P)	Lipid	Glycerolipid metabolism	29849-82-9;	C00093
883	glycerophosphorylcholine (GPC)	Lipid	Glycerolipid metabolism	28319-77-9;	C00670
1	glycine	Amino acid	Glycine, serine and threonine metabolism	56-40-6;	C00037
851	glycochenodeoxycholate	Lipid	Bile acid metabolism	16564-43-5;	C05466
840	glycocholate	Lipid	Bile acid metabolism	475-31-0;863-57-0;	C01921
849	glycodeoxycholate	Lipid	Bile acid metabolism	360-65-6;	C05464
1318	glycolate (hydroxyacetate)	Xenobiotics	Chemical	79-14-1;	C00160
1128	guanosine	Nucleotide	Purine metabolism, guanine containing	118-00-3;	C00387
1212	heme*	Cofactors and vitamins	Hemoglobin and porphyrin metabolism	14875-96-8;	
619	heptanoate (7:0)	Lipid	Medium chain fatty acid	111-14-8;	C17714
823	hexanoylcarnitine	Lipid	Carnitine metabolism	6920-35-0;	C01585
1288	hippurate	Xenobiotics	Benzoate metabolism	495-69-2;	C01586
50	histidine	Amino acid	Histidine metabolism	5934-29-2;	C00135

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	CAS	KEGG
231	homocysteine	Amino acid	Cysteine, methionine, SAM, taurine metabolism	454-29-5;	C00155
1585	homostachydrine*	Xenobiotics	Food component/Plant	1195-94-4;	C08283
206	hydroxyisovaleroyl carnitine	Amino acid	Valine, leucine and isoleucine metabolism	99159-87-2;	
1098	hypoxanthine	Nucleotide	Purine metabolism, (hypo)xanthine/inosine containing	68-94-0;	C00262
1101	inosine 5'-monophosphate (IMP)	Nucleotide	Purine metabolism, (hypo)xanthine/inosine containing	4691-65-0;	C00130
	Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol				
527	1,4 or 1,3-diphosphate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism		
561	Isobar: ribulose 5-phosphate, xylulose 5-phosphate	Carbohydrate	Nucleotide sugars, pentose metabolism		
496	Isobar: sorbitol, mannitol	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism		C00392,C01722,C01697,C01489,C00794,C01507
200	isobutyrylcarnitine	Amino acid	Valine, leucine and isoleucine metabolism	25518-49-4;	
180	isoleucine	Amino acid	Valine, leucine and isoleucine metabolism	73-32-5;	C00407
478	isomaltose	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	499-40-1;	C00252
205	isovalerylcarnitine	Amino acid	Valine, leucine and isoleucine metabolism		
144	kynurenine	Amino acid	Tryptophan metabolism	2922-83-0;	C00328
536	lactate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	79-33-4;	C00186
1018	lathosterol	Lipid	Sterol/Steroid	80-99-9 ;	C01189
625	laurate (12:0)	Lipid	Medium chain fatty acid	143-07-7;	C02679
181	leucine	Amino acid	Valine, leucine and isoleucine metabolism	61-90-5;	C00123

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	CAS	KEGG
604	linoleate (18:2n6)	Lipid	Essential fatty acid	60-33-3;	C01595
608	linolenate [alpha or gamma; (18:3n3 or 6)]	Lipid	Essential fatty acid		C06427
69	lysine	Amino acid	Lysine metabolism	56-87-1;	C00047
598	malate	Energy	Krebs cycle	6915-15-7;	C00149
482	maltose	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	6363-53-7;	C00208
487	mannose	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	3458-28-4;	C00159
489	mannose-6-phosphate	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	70442-25-0;104872-94-8;	C00275
635	margarate (17:0)	Lipid	Long chain fatty acid	506-12-7;	
658	mead acid (20:3n9)	Lipid	Long chain fatty acid	20590-32-3;	
225	methionine	Amino acid	Cysteine, methionine, SAM, taurine metabolism	63-68-3;	C00073
890	myo-inositol	Lipid	Inositol metabolism	87-89-8;	C00137
629	myristate (14:0)	Lipid	Long chain fatty acid	544-63-8;	C06424
630	myristoleate (14:1n5)	Lipid	Long chain fatty acid	544-64-9 ;	C08322
1242.1	N1-Methyl-2-pyridone-5-carboxamide	Cofactors and vitamins	Nicotinate and nicotinamide metabolism	701-44-0;	C05842
75	N-6-trimethyllysine	Amino acid	Lysine metabolism	23284-33-5;	
4	N-acetyl glycine	Amino acid	Glycine, serine and threonine metabolism	543-24-8;	
227	N-acetylmethionine	Amino acid	Cysteine, methionine, SAM, taurine metabolism	65-82-7;	C02712
455	N-acetylneuraminat	Carbohydrate	Aminosugars metabolism	131-48-6;	C00270
1221	nicotinamide	Cofactors and vitamins	Nicotinate and nicotinamide metabolism	98-92-0;	C00153
1224	nicotinamide adenine dinucleotide (NAD+)	Cofactors and vitamins	Nicotinate and nicotinamide metabolism	53-84-9;	C00003
825	octanoylcarnitine	Lipid	Carnitine metabolism	3671-77-0;	
639	oleate (18:1n9)	Lipid	Long chain fatty acid	112-80-1;	C00712
835	oleoylcarnitine	Lipid	Carnitine metabolism		

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	CAS	KEGG
285	ophthalmate	Amino acid	Glutathione metabolism	495-27-2;	
244	ornithine	Amino acid	Urea cycle; arginine-, proline-, metabolism	3184-13-2;	C00077
632	palmitate (16:0)	Lipid	Long chain fatty acid	57-10-3;	C00249
633	palmitoleate (16:1n7)	Lipid	Long chain fatty acid	373-49-9;	C08362
1004	palmitoyl sphingomyelin	Lipid	Sphingolipid		
833	palmitoylcarnitine	Lipid	Carnitine metabolism	6865-14-1;	
1243	pantothenate	Cofactors and vitamins	Pantothenate and CoA metabolism	137-08-6;	C00864
1613	paraxanthine	Xenobiotics	Xanthine metabolism	611-59-6;	C13747
88	p-cresol sulfate	Amino acid	Phenylalanine & tyrosine metabolism	3233-57-7;	C01468
621	pelargonate (9:0)	Lipid	Medium chain fatty acid	112-05-0;	C01601
631	pentadecanoate (15:0)	Lipid	Long chain fatty acid	1002-84-2;	C16537
135	phenol sulfate	Amino acid	Phenylalanine & tyrosine metabolism	937-34-8;	C02180
128	phenylacetylglutamine	Amino acid	Phenylalanine & tyrosine metabolism	28047-15-6;	C05597
83	phenylalanine	Amino acid	Phenylalanine & tyrosine metabolism	63-91-2;	C00079
602	phosphate	Energy	Oxidative phosphorylation	7664-38-2 ;	C00009
534	phosphoenolpyruvate (PEP)	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	10526-80-4;	C00074
877	phosphoethanolamine	Lipid	Glycerolipid metabolism	1071-23-4;	C00346
74	pipecolate	Amino acid	Lysine metabolism	4043-87-2;	C00408
1531	piperine	Xenobiotics	Food component/Plant	94-62-2;	C03882
246	proline	Amino acid	Urea cycle; arginine-, proline-, metabolism	147-85-3;	C00148
809	propionylcarnitine	Lipid	Fatty acid metabolism (also BCAA metabolism)	17298-37-2 ;	C03017
1181	pseudouridine	Nucleotide	Pyrimidine metabolism, uracil containing	1445-07-4;	C02067
45	pyroglutamine*	Amino acid	Glutamate metabolism		
603	pyrophosphate (PPi)	Energy	Oxidative phosphorylation	1466-09-3;	C00013

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	CAS	KEGG
535	pyruvate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	127-17-3;	C00022
1469	ranitidine	Xenobiotics	Drug	66357-59-3;	D00422
548	ribitol	Carbohydrate	Nucleotide sugars, pentose metabolism	488-81-3;	C00474
557	ribose 5-phosphate	Carbohydrate	Nucleotide sugars, pentose metabolism	18265-46-8;108321-05-7;	C00117
559	ribulose	Carbohydrate	Nucleotide sugars, pentose metabolism	488-84-6;	C00309
224	S-adenosylhomocysteine (SAH)	Amino acid	Cysteine, methionine, SAM, taurine metabolism	979-92-0;	C00021
551	sedoheptulose-7-phosphate	Carbohydrate	Nucleotide sugars, pentose metabolism	2646-35-7;	C05382
8	serine	Amino acid	Glycine, serine and threonine metabolism	56-45-1;	C00065
216	S-methylcysteine	Amino acid	Cysteine, methionine, SAM, taurine metabolism	1187-84-4;	
281	S-methylglutathione	Amino acid	Glutathione metabolism	2922-56-7;	C11347
270	spermidine	Amino acid	Polyamine metabolism	124-20-9;	C00315
1584	stachydrine	Xenobiotics	Food component/Plant	4136-37-2;	C10172
637	stearate (18:0)	Lipid	Long chain fatty acid	57-11-4;	C01530
1005	stearoyl sphingomyelin	Lipid	Sphingolipid	85187-10-6;85187-10-6;	C00550
834	stearoylcarnitine	Lipid	Carnitine metabolism	18822-91-8;	
591	succinylcarnitine	Energy	Krebs cycle		
1662	terephthalic acid	Xenobiotics	Phthalate	100-21-0;	C06337
1614	theobromine	Xenobiotics	Xanthine metabolism	83-67-0;	C07480
1615	theophylline	Xenobiotics	Xanthine metabolism	58-55-9;	C07130
549	threitol	Carbohydrate	Nucleotide sugars, pentose metabolism	2418-52-2;	C16884
1199	threonate	Cofactors and vitamins	Ascorbate and aldarate metabolism	70753-61-6;	C01620
17	threonine	Amino acid	Glycine, serine and threonine metabolism	72-19-5;	C00188
252	trans-4-hydroxyproline	Amino acid	Urea cycle; arginine-, proline-, metabolism	51-35-4;	C01157

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	CAS	KEGG
501	trehalose	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	6138-23-4;	C01083
1242	trigonelline (N ¹ -methylnicotinate)	Cofactors and vitamins	Nicotinate and nicotinamide metabolism	6138-41-6 ;	
145	tryptophan	Amino acid	Tryptophan metabolism	73-22-3;	C00078
151	tryptophan betaine	Amino acid	Tryptophan metabolism	20671-76-5;	C09213
99	tyrosine	Amino acid	Phenylalanine & tyrosine metabolism	60-18-4;	C00082
1149	urate	Nucleotide	Purine metabolism, urate metabolism	69-93-2;120K5305;	C00366
245	urea	Amino acid	Urea cycle; arginine-, proline-, metabolism	57-13-6;	C00086
1180	uridine	Nucleotide	Pyrimidine metabolism, uracil containing	58-96-8;	C00299
190	valine	Amino acid	Valine, leucine and isoleucine metabolism	72-18-4;	C00183
565	xylitol	Carbohydrate	Nucleotide sugars, pentose metabolism	87-99-0;	C00379
570	xylonate	Carbohydrate	Nucleotide sugars, pentose metabolism	73686-31-7;	C00502,C05411
569	xylose	Carbohydrate	Nucleotide sugars, pentose metabolism	609-06-3;	C00181

SAMPLE NAME	DARM-00001	DARM-00002
CLIENT IDENTIFIER	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
SAMPLE ID	997731	997714
PARENT SAMPLE ID	991346	991347
ACTUAL	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
COND DAY	T2 D0	T2 D7
BRADFORD PROTEIN	168.571	179.95
Group HMDB	T2 D0	T2 D7

PATHWAY SORT
ORDER

BIOCHEMICAL NAME	Group HMDB	T2 D0	T2 D7
905 1,2-propanediol	HMDB01881	848,843	3,867,385
532 1,3-dihydroxyacetone	HMDB01882	72,358	86,588
515 1,5-anhydroglucitol (1,5-AG)	HMDB02712	9,119,645	7,888,787
523 1,6-anhydroglucose	HMDB00640	383,268	291,235
636 10-heptadecenoate (17:1n7)		62,398	92,393
742 13-methylmyristic acid		62,907	119,838
744 15-methylpalmitate (isobar with 2-methylpalmitate)		113,326	278,457
919 1-arachidonoylglycerophosphoethanolamine*	HMDB11517	34,842	42,908
938 1-linoleoylglycerophosphocholine		272,671	354,976
926 1-myristoylglycerophosphocholine	HMDB10379		
936 1-oleoylglycerophosphocholine		83,831	44,483
915 1-oleoylglycerophosphoethanolamine	HMDB11506	20,885	24,750
970 1-palmitoylglycerol (1-monopalmitin)		15,799	43,332
929 1-palmitoylglycerophosphocholine		339,238	368,197
909 1-palmitoylglycerophosphoethanolamine	HMDB11503	20,300	27,592
934 1-stearoylglycerophosphocholine		234,253	155,235
533 2,3-diphosphoglycerate	HMDB01294	439,404	176,181
263 2-aminobutyrate	HMDB00650	1,286,677	1,365,578
945 2-arachidonoylglycerophosphocholine*		30,785	33,968
920 2-arachidonoylglycerophosphoethanolamine*		106,856	90,289
923 2-docosahexaenoylglycerophosphoethanolamine*		50,987	
922 2-docosapentaenoylglycerophosphoethanolamine*		32,223	51,932
1360 2-ethylhexanoate (isobar with 2-propylpentanoate)		34,165	41,323
229 2-hydroxybutyrate (AHB)	HMDB00008	1,395,042	1,168,788
714 2-hydroxyglutarate	HMDB00606	67,436	55,569
706 2-hydroxypalmitate		44,836	57,604
939 2-linoleoylglycerophosphocholine*			88,889

SAMPLE NAME	DARM-00001	DARM-00002
CLIENT IDENTIFIER	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
SAMPLE ID	997731	997714
PARENT SAMPLE ID	991346	991347
ACTUAL	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
COND DAY	T2 D0	T2 D7
BRADFORD PROTEIN	168,571	179,95

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	Group HMDB	T2 D0	T2 D7
202	2-methylbutyrylcarnitine	HMDB00378	47,519	54,219
937	2-oleoylglycerophosphocholine*			
930	2-palmitoylglycerophosphocholine*			
935	2-stearoylglycerophosphocholine*		65,500	
821	3-dehydrocarnitine*	HMDB12154	1,065,773	977,149
170	3-indoxyl sulfate	HMDB00682	11,032	8,631
172	3-methyl-2-oxobutyrate	HMDB00019	38,821	44,517
173	3-methyl-2-oxovalerate	HMDB03736	53,292	53,366
529	3-phosphoglycerate	HMDB00807	2,151,451	1,081,048
193	4-methyl-2-oxopentanoate	HMDB00695	116,549	122,839
266	5-methylthioadenosine (MTA)	HMDB01173	46,891	84,011
282	5-oxoproline	HMDB00267	46,823	170,475
545	6-phosphogluconate	HMDB01316	188,497	90,500
1024	7-beta-hydroxycholesterol	HMDB06119	37,063	32,538
712.5	9,10-epoxyoctadec-12(Z)-enoic acid	HMDB04701	15,263	86,068
672	9,10-epoxystearate		292,557	5,466,700
822	acetylcarnitine	HMDB00201	3,688,832	3,081,463
601	acetylphosphate	HMDB01494	3,238,971	3,234,994
1105	adenine	HMDB00034	46,158,980	36,248,408
1106	adenosine	HMDB00050		15,757
1116	adenosine 5'-diphosphate (ADP)	HMDB01341	251,985	267,661
1232	adenosine 5'diphosphoribose	HMDB01178	131,568	117,241
1114	adenosine 5'-monophosphate (AMP)	HMDB00045	2,991,014	4,314,713
665	adrenate (22:4n6)	HMDB02226	34,852	145,403

PATHWAY SORT		SAMPLE NAME	DARM-00001	DARM-00002
ORDER	BIOCHEMICAL NAME	CLIENT IDENTIFIER	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
		SAMPLE ID	997731	997714
		PARENT SAMPLE ID	991346	991347
		ACTUAL	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
		COND DAY	T2 D0	T2 D7
		BRADFORD PROTEIN	168,571	179,95
		Group HMDB	T2 D0	T2 D7
27	alanine	HMDB00161	49,301,460	46,689,744
1150	allantoin	HMDB00462	39,195	27,663
179	alpha-hydroxyisocaproate	HMDB00746		
198	alpha-hydroxyisovalerate	HMDB00407	406,667	337,453
1266	alpha-tocopherol	HMDB01893	259,705	236,793
1034	androsterone sulfate	HMDB02759	6,335	4,875
566	arabinose	HMDB00646	359,692	285,425
546	arabitol	HMDB01851	608,598	484,073
1202	arabonate	HMDB00539	109,163	89,223
659	arachidonate (20:4n6)	HMDB01043	850,050	1,218,465
241	arginine	HMDB00517	1,044,174	521,652
25	asparagine	HMDB00168	1,333,427	1,139,404
24	aspartate	HMDB00191	5,837,734	5,138,599
721	azelate (nonanedioate)	HMDB00784	7,020	18,214
26	beta-alanine	HMDB00056	84,654	94,481
7	beta-hydroxypyruvate	HMDB01352	341,291	239,597
22	betaine	HMDB00043	1,105,156	991,686
1057	beta-sitosterol	HMDB00852	24,409	
1216	biliverdin	HMDB01008		

SAMPLE NAME	DARM-00001	DARM-00002
CLIENT IDENTIFIER	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
SAMPLE ID	997731	997714
PARENT SAMPLE ID	991346	991347
ACTUAL	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
COND DAY	T2 D0	T2 D7
BRADFORD PROTEIN	168,571	179,95

PATHWAY SORT

ORDER BIOCHEMICAL NAME

	Group HMDB	T2 D0	T2 D7
811 butyrylcarnitine		16,911	14,330
1612 caffeine	HMDB01847	2,855,568	2,509,127
1059 campesterol	HMDB02869	237,124	110,634
622 caprate (10:0)	HMDB00511	15,587	28,666
618 caproate (6:0)	HMDB00535	77,173	55,538
620 caprylate (8:0)	HMDB00482	13,339	30,641
820 carnitine		834,820	718,340
1300 catechol sulfate		91,756	83,703
164 C-glycosyltryptophan*		28,900	25,554
1020 cholesterol	HMDB00067	34,703,420	32,446,710
881 choline		645,180	780,927
582 cis-aconitate	HMDB00072	560,918	929,571
641 cis-vaccenate (18:1n7)		292,696	194,918
579 citrate	HMDB00094	394,077,408	320,473,280
248 citrulline	HMDB00904	148,972	145,526
259 creatine	HMDB00064	3,278,860	3,139,046
260 creatinine	HMDB00562	324,911	388,210
213 cysteine	HMDB00574	634,807	652,845
819 deoxycarnitine	HMDB01161	548,836	478,623
655 dihomol-inoate (20:2n6)		35,591	56,119
609 dihomol-inoate (20:3n3 or n6)	HMDB02925	81,689	109,604
531 dihydroxyacetone phosphate (DHAP)	HMDB01473	23,885	69,834
3 dimethylglycine	HMDB00092	267,234	277,681
613 docosahexaenoate (DHA; 22:6n3)	HMDB02183	127,566	212,381
611 docosapentaenoate (n3 DPA; 22:5n3)	HMDB01976	51,249	73,295
610 eicosapentaenoate (EPA; 20:5n3)	HMDB01999	178,046	249,841
1565 ergothioneine	HMDB03045	535,149	531,221
735 erucamide		139,553	198,771
1632 erythritol	HMDB02994	918,980	1,080,344
453 erythronate*	HMDB00613	313,920	376,749

SAMPLE NAME	DARM-00001	DARM-00002
CLIENT IDENTIFIER	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
SAMPLE ID	997731	997714
PARENT SAMPLE ID	991346	991347
ACTUAL	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
COND DAY	T2 D0	T2 D7
BRADFORD PROTEIN	168,571	179,95

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	Group HMDB	T2 D0	T2 D7
876	ethanolamine	HMDB00149	321,089	658,117
472	fructose	HMDB00660	65,757,520	63,837,628
524	fructose-6-phosphate	HMDB00124	496,403	512,296
594	fumarate	HMDB00134	275,184	296,538
404	gamma-glutamylleucine	HMDB11171	29,809	24,092
521	glucose	HMDB00122	1,100,230,656	954,082,560
519	glucose-6-phosphate (G6P)	HMDB01401	1,454,115	1,323,591
39	glutamate	HMDB03339	5,532,164	4,146,794
44	glutamine	HMDB00641	1,830,972	1,718,438
80	glutaroyl carnitine	HMDB13130	19,378	14,312
283	glutathione, oxidized (GSSG)	HMDB03337	1,549,227	1,150,501
280	glutathione, reduced (GSH)	HMDB00125	26,491,108	17,362,302
517	glycerate	HMDB00139	264,687	360,365
882	glycerol 3-phosphate (G3P)	HMDB00126	322,127	285,538
883	glycerophosphorylcholine (GPC)	HMDB00086	184,227	155,277
1	glycine	HMDB00123	31,483,824	30,068,884
851	glycochenodeoxycholate	HMDB00637	16,931	16,697
840	glycocholate	HMDB00138	6,120	4,136
849	glycodeoxycholate	HMDB00631	6,487	
1318	glycolate (hydroxyacetate)	HMDB00115	425,658	396,184
1128	guanosine	HMDB00133	40,847	33,118
1212	heme*		1,775,876	524,329
619	heptanoate (7:0)	HMDB00666	10,987	17,158
823	hexanoylcarnitine	HMDB00705	70,206	34,266
1288	hippurate	HMDB00714	58,525	52,699
50	histidine	HMDB00177	36,496	39,560

PATHWAY SORT		SAMPLE NAME	DARM-00001	DARM-00002
ORDER	BIOCHEMICAL NAME	CLIENT IDENTIFIER	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
		SAMPLE ID	997731	997714
		PARENT SAMPLE ID	991346	991347
		ACTUAL	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
		COND DAY	T2 D0	T2 D7
		BRADFORD PROTEIN	168,571	179,95
		Group HMDB	T2 D0	T2 D7
	231 homocysteine	HMDB00742	16,193	24,733
	1585 homostachydrine*		49,015	41,677
	206 hydroxyisovaleroyl carnitine		193,039	159,446
	1098 hypoxanthine	HMDB00157	255,963	315,974
	1101 inosine 5'-monophosphate (IMP)	HMDB00175	104,400	190,719
	Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol			
	527 1,4 or 1,3-diphosphate		73,077	72,990
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate		87,743	122,479
	496 Isobar: sorbitol, mannitol	HMDB00247	18,878,152	16,521,461
	200 isobutyrylcarnitine		155,407	137,258
	180 isoleucine	HMDB00172	4,247,789	3,651,103
	478 isomaltose	HMDB02923	2,211,305	1,527,311
	205 isovalerylcarnitine	HMDB00688	90,170	74,684
	144 kynurenine	HMDB00684	115,490	109,456
	536 lactate	HMDB00190	226,508,752	661,456,640
	1018 lathosterol	HMDB01170	75,256	82,920
	625 laurate (12:0)	HMDB00638	110,171	127,732
	181 leucine	HMDB00687	7,866,940	7,253,589

SAMPLE NAME	DARM-00001	DARM-00002
CLIENT IDENTIFIER	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
SAMPLE ID	997731	997714
PARENT SAMPLE ID	991346	991347
ACTUAL	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
COND DAY	T2 D0	T2 D7
BRADFORD PROTEIN	168,571	179,95

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	Group HMDB	T2 D0	T2 D7
604	linoleate (18:2n6)	HMDB00673	1,811,663	2,917,321
608	linolenate [alpha or gamma; (18:3n3 or 6)]	HMDB01388	446,144	662,587
69	lysine	HMDB00182	2,060,373	2,375,808
598	malate	HMDB00156	802,391	1,133,712
482	maltose	HMDB00163	1,213,462	1,061,234
487	mannose	HMDB00169	15,465,050	13,156,129
489	mannose-6-phosphate	HMDB01078	223,451	283,027
635	margarate (17:0)	HMDB02259	281,578	453,773
658	mead acid (20:3n9)	HMDB10378	16,233	21,473
225	methionine	HMDB00696	846,151	600,002
890	myo-inositol	HMDB00211	1,625,582	1,678,786
629	myristate (14:0)	HMDB00806	391,047	759,814
630	myristoleate (14:1n5)	HMDB02000	15,905	17,880
1242.1	N1-Methyl-2-pyridone-5-carboxamide	HMDB04193	296,358	288,787
75	N-6-trimethyllysine		95,814	90,583
4	N-acetylglycine	HMDB00532	97,087	71,552
227	N-acetylmethionine	HMDB11745		4,377
455	N-acetylneuraminat	HMDB00230	28,716	46,233
1221	nicotinamide	HMDB01406	2,316,366	2,552,832
1224	nicotinamide adenine dinucleotide (NAD+)	HMDB00902	3,710	3,123
825	octanoylcarnitine		56,396	54,946
639	oleate (18:1n9)	HMDB00207	504,038	723,002
835	oleoylcarnitine	HMDB05065	75,050	74,734

SAMPLE NAME	DARM-00001	DARM-00002
CLIENT IDENTIFIER	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
SAMPLE ID	997731	997714
PARENT SAMPLE ID	991346	991347
ACTUAL	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
COND DAY	T2 D0	T2 D7
BRADFORD PROTEIN	168,571	179,95

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	Group HMDB	T2 D0	T2 D7
285	ophthalmate	HMDB05765	116,806	21,847
244	ornithine	HMDB03374	12,248,723	12,194,642
632	palmitate (16:0)	HMDB00220	5,527,414	8,850,880
633	palmitoleate (16:1n7)	HMDB03229	349,886	541,673
1004	palmitoyl sphingomyelin		14,824,070	13,545,406
833	palmitoylcarnitine		64,191	29,147
1243	pantothenate	HMDB00210	97,336	91,691
1613	paraxanthine	HMDB01860	520,139	445,282
88	p-cresol sulfate		81,049	73,182
621	pelargonate (9:0)	HMDB00847	170,061	292,268
631	pentadecanoate (15:0)	HMDB00826	164,538	256,296
135	phenol sulfate		22,748	21,602
128	phenylacetylglutamine	HMDB06344	83,959	75,806
83	phenylalanine	HMDB00159	8,846,152	8,204,792
602	phosphate	HMDB01429	1,032,504,064	1,055,862,016
534	phosphoenolpyruvate (PEP)	HMDB00263	464,449	166,197
877	phosphoethanolamine	HMDB00224	82,493	71,777
74	pipecolate	HMDB00070	107,952	92,948
1531	piperine		97,887	107,407
246	proline	HMDB00162	1,868,739	2,240,127
809	propionylcarnitine	HMDB00824	824,474	702,798
1181	pseudouridine	HMDB00767	14,590	12,637
45	pyroglutamine*		81,527	64,527
603	pyrophosphate (PPi)	HMDB00250	171,761	114,179

SAMPLE NAME	DARM-00001	DARM-00002
CLIENT IDENTIFIER	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
SAMPLE ID	997731	997714
PARENT SAMPLE ID	991346	991347
ACTUAL	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
COND DAY	T2 D0	T2 D7
BRADFORD PROTEIN	168,571	179,95

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	Group HMDB	T2 D0	T2 D7
535	pyruvate	HMDB00243	1,815,000	3,412,879
1469	ranitidine	HMDB01930	366,122	357,222
548	ribitol	HMDB00508	190,964	165,369
557	ribose 5-phosphate	HMDB00618	174,472	170,644
559	ribulose	HMDB00621,HMDB03371	19,113	
224	S-adenosylhomocysteine (SAH)	HMDB00939	138,810	191,407
551	sedoheptulose-7-phosphate	HMDB01068	67,916	22,290
8	serine	HMDB03406	6,312,563	6,207,909
216	S-methylcysteine	HMDB02108	188,357	196,891
281	S-methylglutathione		39,472	24,727
270	spermidine	HMDB01257	1,003,105	942,647
1584	stachydrine	HMDB04827	187,777	130,368
637	stearate (18:0)	HMDB00827	5,386,088	9,103,771
1005	stearoyl sphingomyelin	HMDB01348	1,530,340	1,164,523
834	stearoylcarnitine	HMDB00848	19,274	
591	succinylcarnitine		328,477	332,975
1662	terephthalic acid	HMDB02428	284,825	189,503
1614	theobromine	HMDB02825	317,888	279,210
1615	theophylline	HMDB01889	123,980	186,516
549	threitol	HMDB04136	1,015,173	1,097,957
1199	threonate	HMDB00943	553,578	487,811
17	threonine	HMDB00167	166,448	163,121
252	trans-4-hydroxyproline	HMDB00725	39,682	36,742

PATHWAY SORT ORDER	BIOCHEMICAL NAME	SAMPLE NAME	DARM-00001	DARM-00002
		CLIENT IDENTIFIER	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
		SAMPLE ID	997731	997714
		PARENT SAMPLE ID	991346	991347
		ACTUAL	NHSCi 2003 T2 D0	NHSCi 2003 T2 D7
		COND DAY	T2 D0	T2 D7
		BRADFORD PROTEIN	168,571	179,95
		Group HMDB	T2 D0	T2 D7
501	trehalose	HMDB00975	80,991	488,438
1242	trigonelline (N ¹ -methylnicotinate)	HMDB00875	262,040	245,429
145	tryptophan	HMDB00929	4,334,128	3,534,535
151	tryptophan betaine		1,527,459	1,476,027
99	tyrosine	HMDB00158	2,068,021	1,810,748
1149	urate	HMDB00289	180,006	175,475
245	urea	HMDB00294	32,700,246	27,281,750
1180	uridine	HMDB00296	13,411	21,360
190	valine	HMDB00883	8,529,817	8,012,101
565	xylitol	HMDB00568		
570	xylonate		53,934	53,665
569	xylose	HMDB00098	108,343	

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00003	DARM-00004	DARM-00005	DARM-00006
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		997743	997745	997721	997727
		991348	991349	991350	991351
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		T2 D14	T2 D21	T2 D28	T1 D0
		177.746	178.439	181.508	193.651
		T2 D14	T2 D21	T2 D28	T1 D0
905	1,2-propanediol	8,051,589	7,677,646	9,385,429	597,231
532	1,3-dihydroxyacetone	116,949	78,807	64,825	76,373
515	1,5-anhydroglucitol (1,5-AG)	9,382,562	7,753,035	7,340,280	8,019,994
523	1,6-anhydroglucose	270,657	368,639	345,543	301,535
636	10-heptadecenoate (17:1n7)	66,109	68,237	110,751	66,773
742	13-methylmyristic acid	133,631	124,948	169,573	48,932
744	15-methylpalmitate (isobar with 2-methylpalmitate)	262,782	235,729	364,262	136,907
919	1-arachidonoylglycerophosphoethanolamine*	26,206	25,676	30,731	26,039
938	1-linoleoylglycerophosphocholine	221,573	229,916	307,841	260,253
926	1-myristoylglycerophosphocholine	30,969	152,570	51,715	
936	1-oleoylglycerophosphocholine	92,141	1,158,769	588,839	
915	1-oleoylglycerophosphoethanolamine	13,225	14,470	12,040	17,656
970	1-palmitoylglycerol (1-monopalmitin)	40,748	41,028	35,678	33,251
929	1-palmitoylglycerophosphocholine	523,311	6,332,508	4,069,074	281,646
909	1-palmitoylglycerophosphoethanolamine	20,110	23,692	23,426	16,617
934	1-stearoylglycerophosphocholine	241,127	2,352,217	1,270,107	136,578
533	2,3-diphosphoglycerate	34,908	8,377	7,875	570,388
263	2-aminobutyrate	1,657,761	1,601,627	1,277,481	1,167,143
945	2-arachidonoylglycerophosphocholine*		294,864		
920	2-arachidonoylglycerophosphoethanolamine*	253,359	2,075,197	747,720	92,488
923	2-docosahexaenoylglycerophosphoethanolamine*	77,956	388,022	235,282	32,009
922	2-docosapentaenoylglycerophosphoethanolamine*	125,217	377,775	252,566	
1360	2-ethylhexanoate (isobar with 2-propylpentanoate)	40,014			59,440
229	2-hydroxybutyrate (AHB)	1,335,219	1,444,275	1,148,063	1,377,727
714	2-hydroxyglutarate	123,980	98,129	136,377	69,535
706	2-hydroxypalmitate	49,809	39,241	61,456	27,626
939	2-linoleoylglycerophosphocholine*		522,782	299,920	

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00003	DARM-00004	DARM-00005	DARM-00006
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		997743	997745	997721	997727
		991348	991349	991350	991351
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		T2 D14	T2 D21	T2 D28	T1 D0
		177.746	178.439	181.508	193.651
		T2 D14	T2 D21	T2 D28	T1 D0
	202 2-methylbutyrocarnitine	52,946	42,758	60,727	65,388
	937 2-oleoylglycerophosphocholine*	35,455	241,064	125,842	
	930 2-palmitoylglycerophosphocholine*	45,335	651,755	268,904	29,782
	935 2-stearoylglycerophosphocholine*		235,000	115,914	
	821 3-dehydrocarnitine*	1,019,450	1,082,581	1,080,486	1,035,201
	170 3-indoxyl sulfate	9,820	10,439	10,683	9,098
	172 3-methyl-2-oxobutyrate	49,853	37,613	33,197	16,717
	173 3-methyl-2-oxovalerate	67,151	65,721	56,937	34,771
	529 3-phosphoglycerate	806,390	412,047	502,682	3,678,014
	193 4-methyl-2-oxopentanoate	148,392	116,731	109,200	68,101
	266 5-methylthioadenosine (MTA)	135,496	140,410	120,676	37,812
	282 5-oxoproline	288,258	395,101	514,532	51,196
	545 6-phosphogluconate	75,132	72,614	55,320	48,049
	1024 7-beta-hydroxycholesterol	31,754	44,742	30,148	11,625
	712.5 9,10-epoxyoctadec-12(Z)-enoic acid	136,205	137,891	156,214	6,467
	672 9,10-epoxystearate	6,637,511	6,963,358	8,534,965	228,260
	822 acetylcarnitine	3,131,799	2,845,848	3,060,649	3,595,378
	601 acetylphosphate	3,348,130	3,581,780	2,763,060	2,475,165
	1105 adenine	27,343,090	22,142,156	18,066,456	45,361,896
	1106 adenosine	16,563	22,620	34,703	26,151
	1116 adenosine 5'-diphosphate (ADP)	171,632	191,221	232,063	300,865
	1232 adenosine 5'diphosphoribose	120,812	112,168	111,040	130,405
	1114 adenosine 5'-monophosphate (AMP)	4,124,498	4,000,580	6,321,126	5,120,702
	665 adenate (22:4n6)	67,195	98,837	94,853	30,373

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00003	DARM-00004	DARM-00005	DARM-00006
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		997743	997745	997721	997727
		991348	991349	991350	991351
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		T2 D14	T2 D21	T2 D28	T1 D0
		177.746	178.439	181.508	193.651
		T2 D14	T2 D21	T2 D28	T1 D0
		59,739,956	61,392,076	58,225,072	41,559,608
27	alanine				
1150	allantoin	29,024	17,404	30,483	27,655
179	alpha-hydroxyisocaproate	100,719	221,084	384,224	
198	alpha-hydroxyisovalerate	438,288	501,453	660,874	464,662
1266	alpha-tocopherol	277,769	285,258	215,883	207,352
1034	androsterone sulfate	5,868	5,622	5,121	5,870
566	arabinose	422,619	325,189	357,407	330,072
546	arabitol	650,198	631,961	512,654	573,008
1202	arabonate	82,115	110,045	108,000	116,187
659	arachidonate (20:4n6)	686,066	821,476	1,533,608	875,136
241	arginine	888,856	726,576	1,393,776	799,142
25	asparagine	1,190,101	1,147,523	847,738	1,213,263
24	aspartate	6,475,535	7,133,001	6,279,271	5,994,289
721	azelate (nonanedioate)	32,441	41,591	54,554	7,597
26	beta-alanine	94,272	92,691	63,966	52,945
7	beta-hydroxypyruvate	312,144	199,096	304,607	291,640
22	betaine	1,224,881	1,213,351	1,091,302	1,268,964
1057	beta-sitosterol	15,749	34,902	16,481	25,809
1216	biliverdin		40,654	22,159	20,846

DARM-00003	DARM-00004	DARM-00005	DARM-00006
NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
997743	997745	997721	997727
991348	991349	991350	991351
NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
T2 D14	T2 D21	T2 D28	T1 D0
177.746	178.439	181.508	193.651

PATHWAY SORT

ORDER

BIOCHEMICAL NAME

	T2 D14	T2 D21	T2 D28	T1 D0
811 butyrylcarnitine	18,440	12,914		18,606
1612 caffeine	2,755,255	2,649,273	2,555,892	2,809,313
1059 campesterol	228,484	178,116		274,885
622 caprate (10:0)	37,090	31,072	29,263	13,557
618 caproate (6:0)	61,238	43,343	41,458	87,353
620 caprylate (8:0)	61,964	42,845	49,939	32,025
820 carnitine	823,844	802,720	810,327	748,275
1300 catechol sulfate	91,434	84,050	82,170	87,304
164 C-glycosyltryptophan*	27,003	27,122	27,774	30,009
1020 cholesterol	36,413,804	37,031,008	33,649,312	32,803,384
881 choline	758,785	844,880	906,633	782,707
582 cis-aconitate	971,813	965,590	1,091,042	634,631
641 cis-vaccenate (18:1n7)	103,745	137,179	194,116	115,498
579 citrate	324,530,176	289,676,608	256,915,088	380,581,440
248 citrulline	158,595	144,180	165,608	173,532
259 creatine	3,155,329	3,110,639	3,065,868	3,188,870
260 creatinine	368,395	396,776	310,196	370,502
213 cysteine	854,325	1,614,778	1,506,844	421,175
819 deoxycarnitine	540,779	475,548	514,399	578,492
655 dihomo-linoleate (20:2n6)	41,016	41,834	77,060	32,538
609 dihomo-linolenate (20:3n3 or n6)	72,443	85,727	153,773	82,068
531 dihydroxyacetone phosphate (DHAP)	20,946	40,825		3,139,871
3 dimethylglycine	246,687	437,855	240,986	191,525
613 docosahexaenoate (DHA; 22:6n3)	158,153	210,643	370,969	137,766
611 docosapentaenoate (n3 DPA; 22:5n3)	79,287	82,416	143,061	55,064
610 eicosapentaenoate (EPA; 20:5n3)	140,590	215,800	301,430	193,132
1565 ergothioneine	497,357	461,335	520,948	539,562
735 erucamide	206,975	497,591	207,158	129,960
1632 erythritol	1,549,809	1,873,237	1,975,202	986,028
453 erythronate*	456,321	497,722	470,756	313,095

		DARM-00003	DARM-00004	DARM-00005	DARM-00006
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		997743	997745	997721	997727
		991348	991349	991350	991351
PATHWAY SORT		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
ORDER	BIOCHEMICAL NAME	T2 D14	T2 D21	T2 D28	T1 D0
876	ethanolamine	177,746	178,439	181,508	193,651
472	fructose	80,913,064	86,507,560	78,355,280	53,150,484
524	fructose-6-phosphate	504,742	395,047	424,315	261,733
594	fumarate	271,306	297,773	418,249	312,444
404	gamma-glutamylleucine	23,286	31,492	23,785	26,039
521	glucose	1,053,598,976	1,032,565,824	1,029,962,432	1,050,528,832
519	glucose-6-phosphate (G6P)	1,583,868	930,779	1,246,771	114,535
39	glutamate	5,364,870	5,119,386	5,471,777	6,288,394
44	glutamine	1,462,849	1,421,720	1,185,657	1,966,634
80	glutaroyl carnitine	9,352			12,120
283	glutathione, oxidized (GSSG)	1,146,104	1,135,917	833,181	1,568,169
280	glutathione, reduced (GSH)	26,106,000	22,982,382	17,035,302	26,459,132
517	glycerate	470,668	586,381	575,996	309,751
882	glycerol 3-phosphate (G3P)	295,061	213,688	282,810	1,280,181
883	glycerophosphorylcholine (GPC)	148,839	150,884	168,429	155,419
1	glycine	43,565,284	53,847,536	62,256,112	28,291,758
851	glycochenodeoxycholate	15,191	13,326	16,755	16,503
840	glycocholate	8,157	7,388		7,500
849	glycodeoxycholate		11,419	10,286	
1318	glycolate (hydroxyacetate)	465,396	478,215	395,415	380,381
1128	guanosine	41,014	34,133	38,393	41,859
1212	heme*	946,633	6,250,787	1,578,698	865,836
619	heptanoate (7:0)	24,130	10,702	13,956	18,239
823	hexanoylcarnitine	43,055	33,403	54,792	65,873
1288	hippurate	55,127	55,540	59,143	54,622
50	histidine	34,184	52,873	45,252	54,626

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00003	DARM-00004	DARM-00005	DARM-00006
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		997743	997745	997721	997727
		991348	991349	991350	991351
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		T2 D14	T2 D21	T2 D28	T1 D0
		177.746	178.439	181.508	193.651
		T2 D14	T2 D21	T2 D28	T1 D0
	231 homocysteine	48,090	76,061	65,983	19,970
	1585 homostachydrine*	47,338	40,840	38,924	50,487
	206 hydroxyisovaleroyl carnitine	209,280	189,954	206,345	201,272
	1098 hypoxanthine	1,190,940	3,661,084	6,129,222	366,999
	1101 inosine 5'-monophosphate (IMP)	269,325	175,203	195,010	82,146
	Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol				
	527 1,4 or 1,3-diphosphate	71,000	58,710	67,460	329,423
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate	57,383	93,775	46,916	502,465
	496 Isobar: sorbitol, mannitol	20,448,232	19,889,494	17,503,946	19,898,894
	200 isobutyrylcarnitine	137,471	127,764	121,604	169,915
	180 isoleucine	4,536,709	4,544,457	4,538,633	4,536,955
	478 isomaltose	2,297,650	1,930,628	1,563,279	1,479,343
	205 isovalerylcarnitine	91,865	90,039	121,197	96,932
	144 kynurenine	141,188	136,305	105,439	139,786
	536 lactate	1,195,250,304	1,454,435,840	1,537,938,432	316,614,048
	1018 lathosterol	116,987	77,676	76,679	68,518
	625 laurate (12:0)	133,004	138,376	150,163	119,533
	181 leucine	8,524,241	9,170,862	9,180,339	8,183,361

DARM-00003	DARM-00004	DARM-00005	DARM-00006
NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
997743	997745	997721	997727
991348	991349	991350	991351
NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
T2 D14	T2 D21	T2 D28	T1 D0
177.746	178.439	181.508	193.651

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	T2 D14	T2 D21	T2 D28	T1 D0
604	linoleate (18:2n6)	2,017,285	2,277,671	3,763,954	1,935,023
608	linolenate [alpha or gamma; (18:3n3 or 6)]	523,412	511,629	726,080	530,840
69	lysine	2,449,239	3,920,848	1,805,843	1,908,045
598	malate	1,151,802	1,247,215	1,410,160	722,792
482	maltose	1,244,747	1,238,197	1,089,176	1,109,965
487	mannose	13,836,418	14,351,988	13,004,333	14,288,494
489	mannose-6-phosphate	278,036	224,649	208,880	122,657
635	margarate (17:0)	454,264	358,713	548,762	290,791
658	mead acid (20:3n9)	10,342	12,297	36,027	19,527
225	methionine	591,278	442,776	412,237	910,720
890	myo-inositol	2,045,021	1,886,213	1,508,486	1,871,010
629	myristate (14:0)	846,052	704,453	856,844	365,057
630	myristoleate (14:1n5)		15,417	37,796	
1242.1	N1-Methyl-2-pyridone-5-carboxamide	299,484	200,879	219,238	247,312
75	N-6-trimethyllysine	125,710	108,226	88,378	81,227
4	N-acetylglycine	134,378	91,499	61,104	89,444
227	N-acetylmethionine			4,068	5,000
455	N-acetylneuraminate	82,934	111,325	81,073	41,976
1221	nicotinamide	2,839,631	3,421,625	2,577,569	2,419,713
1224	nicotinamide adenine dinucleotide (NAD+)	3,646	7,612	3,594	5,164
825	octanoylcarnitine	66,639	68,985	65,843	49,823
639	oleate (18:1n9)	500,954	694,796	702,021	503,361
835	oleoylcarnitine	90,717	827,520	359,730	55,847

DARM-00003	DARM-00004	DARM-00005	DARM-00006
NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
997743	997745	997721	997727
991348	991349	991350	991351
NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
T2 D14	T2 D21	T2 D28	T1 D0
177.746	178.439	181.508	193.651

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	T2 D14	T2 D21	T2 D28	T1 D0
	285 ophthalmate			13,260	126,322
	244 ornithine	13,330,256	13,348,461	10,498,763	11,406,275
	632 palmitate (16:0)	7,403,884	6,930,497	9,877,068	5,599,008
	633 palmitoleate (16:1n7)	402,673	383,126	609,074	357,008
	1004 palmitoyl sphingomyelin	15,296,857	15,483,889	13,799,316	13,666,355
	833 palmitoylcarnitine	92,269	520,404	258,440	93,974
	1243 pantothenate	96,511	88,079	92,747	97,366
	1613 paraxanthine	581,962	600,267	498,181	517,976
	88 p-cresol sulfate	77,606	71,521	78,245	79,054
	621 pelargonate (9:0)	541,888	358,157	388,027	226,300
	631 pentadecanoate (15:0)	230,847	218,632	297,162	159,741
	135 phenol sulfate	21,654	19,965	19,700	23,306
	128 phenylacetylglutamine	80,956	88,051	80,666	79,332
	83 phenylalanine	10,777,701	10,596,395	9,766,167	9,265,584
	602 phosphate	1,290,286,208	1,289,449,088	1,203,603,456	825,421,632
	534 phosphoenolpyruvate (PEP)	55,665	22,811	39,021	519,173
	877 phosphoethanolamine	99,221		65,013	95,268
	74 pipecolate	84,844	118,053	94,549	87,897
	1531 piperine	63,157	80,667	69,635	96,486
	246 proline	2,022,186	1,977,697	2,209,844	1,864,009
	809 propionylcarnitine	707,248	591,287	635,194	769,841
	1181 pseudouridine	10,690	9,596	11,550	8,068
	45 pyroglutamine*	48,951	52,472	52,241	47,545
	603 pyrophosphate (PPi)	120,252	94,482	36,279	160,293

DARM-00003	DARM-00004	DARM-00005	DARM-00006
NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
997743	997745	997721	997727
991348	991349	991350	991351
NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
T2 D14	T2 D21	T2 D28	T1 D0
177.746	178.439	181.508	193.651

PATHWAY SORT

ORDER BIOCHEMICAL NAME

T2 D14	T2 D21	T2 D28	T1 D0
3,584,718	1,392,119	883,286	104,646
353,255	323,947	395,306	356,947
264,230	170,760	262,227	199,769
125,607	110,047	92,336	327,343
21,528	29,620	5,901	36,306
218,707	180,852	240,547	136,466
155,997	106,611	27,985	
6,923,332	7,240,069	6,777,029	5,980,283
207,436	225,249	203,359	155,595
27,584	38,256	30,161	39,962
1,226,414	1,160,830	1,181,574	993,676
195,394	208,634	222,209	201,641
7,954,844	7,000,055	9,915,066	5,389,298
1,229,736	1,340,268	1,390,094	1,200,951
78,930	363,625	178,108	
366,863	359,724	404,492	323,401
204,796	226,146	211,575	199,968
354,120	262,534	291,833	324,486
119,772	69,244	109,118	126,037
1,389,832	1,438,844	1,303,130	1,083,124
577,713	520,950	565,903	422,204
168,561	167,515	185,889	162,617
36,611	42,912	37,583	41,882

535 pyruvate
1469 ranitidine

548 ribitol

557 ribose 5-phosphate

559 ribulose

224 S-adenosylhomocysteine (SAH)

551 sedoheptulose-7-phosphate

8 serine

216 S-methylcysteine

281 S-methylglutathione

270 spermidine

1584 stachydrine

637 stearate (18:0)

1005 stearyl sphingomyelin

834 stearyl carnitine

591 succinyl carnitine

1662 terephthalic acid

1614 theobromine

1615 theophylline

549 threitol

1199 threonate

17 threonine

252 trans-4-hydroxyproline

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00003	DARM-00004	DARM-00005	DARM-00006
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		997743	997745	997721	997727
		991348	991349	991350	991351
		NHSCi 2003 T2 D14	NHSCi 2003 T2 D21	NHSCi 2003 T2 D28	NHSCi 2003 T1 D0
		T2 D14	T2 D21	T2 D28	T1 D0
		177.746	178.439	181.508	193.651
		T2 D14	T2 D21	T2 D28	T1 D0
	501 trehalose	799,631	1,060,889	843,654	89,895
	1242 trigonelline (N ¹ -methylnicotinate)	250,669	258,900	252,621	274,003
	145 tryptophan	4,758,198	4,512,919	4,266,043	4,030,519
	151 tryptophan betaine	1,525,838	1,428,182	1,520,371	1,534,749
	99 tyrosine	2,487,868	2,334,271	2,438,636	2,198,833
	1149 urate	166,337	150,014	177,883	186,934
	245 urea	34,699,208	32,933,632	30,938,074	30,904,742
	1180 uridine	22,838	25,675	34,453	23,251
	190 valine	9,654,649	9,108,516	9,098,879	9,146,812
	565 xylitol				
	570 xylonate	81,607	73,825	102,421	100,853
	569 xylose	56,695	78,572	100,976	48,763

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00007	DARM-00008	DARM-00009	DARM-00010
		NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
		997730	997747	997713	997751
		991352	991353	991354	991355
		NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
		T1 D7	T1 D14	T1 D21	T1 D28
		164.122	167.3	157.075	174.895
		T1 D7	T1 D14	T1 D21	T1 D28
	905 1,2-propanediol	5,094,592	7,900,588	11,946,278	9,815,234
	532 1,3-dihydroxyacetone	75,294	98,903	120,530	107,862
	515 1,5-anhydroglucitol (1,5-AG)	8,514,238	7,066,326	11,814,922	6,724,714
	523 1,6-anhydroglucose	393,854	400,508	409,846	316,366
	636 10-heptadecenoate (17:1n7)	77,209	76,842	89,804	68,109
	742 13-methylmyristic acid	112,010	145,087	167,105	144,375
	744 15-methylpalmitate (isobar with 2-methylpalmitate)	183,732	244,720	287,861	217,988
	919 1-arachidonoylglycerophosphoethanolamine*	26,056	27,509	36,945	20,343
	938 1-linoleoylglycerophosphocholine	228,535	240,843	503,766	217,971
	926 1-myristoylglycerophosphocholine	27,955	198,316	171,105	384,103
	936 1-oleoylglycerophosphocholine	249,026	805,615	1,160,093	1,969,326
	915 1-oleoylglycerophosphoethanolamine	24,152	5,933	32,349	11,154
	970 1-palmitoylglycerol (1-monopalmitin)	28,985	44,659	32,712	41,689
	929 1-palmitoylglycerophosphocholine	1,681,923	4,234,489	7,516,405	8,921,981
	909 1-palmitoylglycerophosphoethanolamine	21,884	15,622	42,151	18,028
	934 1-stearoylglycerophosphocholine	557,194	3,471,942	2,495,278	5,419,792
	533 2,3-diphosphoglycerate	514,005	406,442	275,816	82,205
	263 2-aminobutyrate	1,499,061	1,522,610	1,906,989	1,587,369
	945 2-arachidonoylglycerophosphocholine*	69,971	428,855	179,266	806,039
	920 2-arachidonoylglycerophosphoethanolamine*	438,495	2,678,412	1,323,412	3,686,134
	923 2-docosahexaenoylglycerophosphoethanolamine*	134,999	727,344	447,247	1,125,461
	922 2-docosapentaenoylglycerophosphoethanolamine*	185,020	841,336	370,519	939,739
	1360 2-ethylhexanoate (isobar with 2-propylpentanoate)	49,315	40,013	34,710	17,847
	229 2-hydroxybutyrate (AHB)	1,380,591	1,329,590	1,652,279	1,242,529
	714 2-hydroxyglutarate	115,986	115,174	184,819	166,854
	706 2-hydroxypalmitate	40,420	47,330	120,951	46,619
	939 2-linoleoylglycerophosphocholine*		666,996	288,542	912,955

	DARM-00007	DARM-00008	DARM-00009	DARM-00010
	NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
	997730	997747	997713	997751
	991352	991353	991354	991355
	NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
	T1 D7	T1 D14	T1 D21	T1 D28
	164.122	167.3	157.075	174.895
	T1 D7	T1 D14	T1 D21	T1 D28
202 2-methylbutyrylcarnitine	47,597	30,227	58,976	41,719
937 2-oleoylglycerophosphocholine*	55,909	227,409	218,731	484,871
930 2-palmitoylglycerophosphocholine*	107,736	850,966	500,430	1,320,038
935 2-stearoylglycerophosphocholine*	52,478	224,465	116,539	342,063
821 3-dehydrocarnitine*	1,016,691	982,362	1,153,383	1,023,845
170 3-indoxyl sulfate	8,908	10,598	10,032	8,388
172 3-methyl-2-oxobutyrate	10,308		8,238	12,970
173 3-methyl-2-oxovalerate	22,455	12,098	14,312	12,557
529 3-phosphoglycerate	3,001,350	2,379,128	1,254,461	684,644
193 4-methyl-2-oxopentanoate	45,223	20,461	30,765	24,861
266 5-methylthioadenosine (MTA)	106,068	141,550	121,991	116,200
282 5-oxoproline	248,409	316,581	487,200	465,612
545 6-phosphogluconate	87,787	116,731	157,278	50,683
1024 7-beta-hydroxycholesterol	24,651	24,894	51,849	48,199
712.5 9,10-epoxyoctadec-12(Z)-enoic acid	80,921	148,527	137,264	145,151
672 9,10-epoxystearate	5,273,860	7,416,512	10,051,883	7,850,631
822 acetylcarnitine	3,482,386	2,957,871	2,943,287	2,463,402
601 acetylphosphate	3,116,020	2,916,298	3,536,594	2,858,083
1105 adenine	42,820,164	35,164,124	32,958,494	22,692,290
1106 adenosine	39,606	50,679	53,112	47,176
1116 adenosine 5'-diphosphate (ADP)	174,757	112,277	180,872	116,869
1232 adenosine 5'diphosphoribose	140,137	133,202	129,905	108,365
1114 adenosine 5'-monophosphate (AMP)	3,384,504	1,818,121	5,602,308	3,526,180
665 adenate (22:4n6)	134,402	40,015	65,717	54,909

PATHWAY SORT

ORDER BIOCHEMICAL NAME

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00007	DARM-00008	DARM-00009	DARM-00010
		NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
		997730	997747	997713	997751
		991352	991353	991354	991355
		NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
		T1 D7	T1 D14	T1 D21	T1 D28
		164.122	167.3	157.075	174.895
		T1 D7	T1 D14	T1 D21	T1 D28
	27 alanine	46,026,540	46,403,848	61,844,304	50,513,772
	1150 allantoin	15,691	16,447	36,580	12,260
	179 alpha-hydroxyisocaproate	144,415	197,291	312,352	293,435
	198 alpha-hydroxyisovalerate	1,037,016	1,425,137	2,069,952	1,720,625
	1266 alpha-tocopherol	183,533	274,439	378,019	239,099
	1034 androsterone sulfate	4,883		5,621	5,827
	566 arabinose	464,449	421,330	533,174	357,514
	546 arabitol	858,582	791,148	995,548	828,324
	1202 arabonate	112,045	106,724	177,292	90,025
	659 arachidonate (20:4n6)	819,615	672,532	1,159,407	996,120
	241 arginine	996,958	819,233	1,031,571	935,909
	25 asparagine	1,076,330	1,060,803	1,280,762	1,024,284
	24 aspartate	7,078,996	7,557,151	9,547,111	7,674,739
	721 azelate (nonanedioate)	19,025	33,353	46,882	54,019
	26 beta-alanine	53,465	67,742	104,855	91,048
	7 beta-hydroxypyruvate	324,165	304,194	330,819	262,537
	22 betaine	1,264,345	1,284,799	1,309,027	1,337,286
	1057 beta-sitosterol		49,466	44,720	28,975
	1216 biliverdin	25,074	75,380	30,880	69,288

DARM-00007	DARM-00008	DARM-00009	DARM-00010
NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
997730	997747	997713	997751
991352	991353	991354	991355
NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
T1 D7	T1 D14	T1 D21	T1 D28
164.122	167.3	157.075	174.895

PATHWAY SORT

ORDER BIOCHEMICAL NAME

T1 D7	T1 D14	T1 D21	T1 D28
811 butyrylcarnitine	18,993		18,555
1612 caffeine	2,671,487	2,501,316	3,004,181
1059 campesterol		126,048	183,062
622 caprate (10:0)	28,993	30,427	35,743
618 caproate (6:0)	77,649	53,301	53,011
620 caprylate (8:0)	42,353	55,138	42,464
820 carnitine	792,332	801,493	733,487
1300 catechol sulfate	83,229	82,922	90,053
164 C-glycosyltryptophan*	27,480	21,865	20,682
1020 cholesterol	32,736,830	35,737,660	43,877,268
881 choline	949,016	852,487	985,493
582 cis-aconitate	890,339	909,508	1,152,958
641 cis-vaccenate (18:1n7)			250,397
579 citrate	345,310,752	317,354,048	344,202,304
248 citrulline	151,995	152,676	158,868
259 creatine	3,105,707	3,087,004	3,193,254
260 creatinine	269,770	372,679	391,820
213 cysteine	480,046	758,948	1,519,907
819 deoxycarnitine	497,989	534,404	555,496
655 dihomo-linoleate (20:2n6)	49,672	43,052	64,917
609 dihomo-linolenate (20:3n3 or n6)	84,867	72,285	120,602
531 dihydroxyacetone phosphate (DHAP)	3,737,129	740,411	162,486
3 dimethylglycine	258,305	296,444	240,992
613 docosahexaenoate (DHA; 22:6n3)	168,444	163,981	235,179
611 docosapentaenoate (n3 DPA; 22:5n3)	57,715	68,934	88,767
610 eicosapentaenoate (EPA; 20:5n3)	233,741	195,426	233,767
1565 ergothioneine	489,496	433,692	555,621
735 erucamide		552,061	176,649
1632 erythritol	1,346,993	2,164,535	4,162,346
453 erythronate*	446,768	738,985	1,482,815

	DARM-00007	DARM-00008	DARM-00009	DARM-00010
	NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
	997730	997747	997713	997751
	991352	991353	991354	991355
	NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
T1 D7	T1 D14	T1 D21	T1 D28	
	164.122	167.3	157.075	174.895
T1 D7	T1 D14	T1 D21	T1 D28	
876 ethanolamine	555,903	686,214	1,165,937	1,020,568
472 fructose	50,109,964	55,323,568	102,091,968	98,700,936
524 fructose-6-phosphate	296,830	641,289	646,186	519,872
594 fumarate	369,912	414,751	760,435	408,083
404 gamma-glutamylleucine	27,997	32,365	26,144	25,162
521 glucose	1,020,776,448	997,357,184	1,139,034,240	964,054,976
519 glucose-6-phosphate (G6P)	180,720	736,716	1,722,416	1,327,185
39 glutamate	5,533,269	5,249,449	6,124,830	4,963,277
44 glutamine	1,389,451	1,211,024	897,463	921,205
80 glutaroyl carnitine		20,420	17,809	
283 glutathione, oxidized (GSSG)	1,267,565	958,516	877,904	797,820
280 glutathione, reduced (GSH)	23,101,658	22,202,784	15,096,875	15,510,460
517 glycerate	1,121,733	2,107,712	3,489,274	3,304,614
882 glycerol 3-phosphate (G3P)	1,634,444	877,318	549,688	297,549
883 glycerophosphorylcholine (GPC)	130,572	140,299	155,496	159,310
1 glycine	33,825,676	36,850,828	54,430,340	51,906,536
851 glycochenodeoxycholate	16,089	15,842	20,762	16,422
840 glycocholate	4,709		3,415	6,331
849 glycodeoxycholate		12,180	15,682	
1318 glycolate (hydroxyacetate)	439,427	365,340	568,437	448,191
1128 guanosine	48,753	35,829	44,277	27,753
1212 heme*	2,080,469	11,383,302	2,772,017	9,742,363
619 heptanoate (7:0)	19,019	19,535	18,253	9,481
823 hexanoylcarnitine	32,860	35,522	61,577	62,579
1288 hippurate	56,806	55,854	64,295	55,423
50 histidine	35,235	35,498	53,561	46,513

PATHWAY SORT

ORDER BIOCHEMICAL NAME

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00007	DARM-00008	DARM-00009	DARM-00010
		NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
		997730	997747	997713	997751
		991352	991353	991354	991355
		NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
		T1 D7	T1 D14	T1 D21	T1 D28
		164.122	167.3	157.075	174.895
		T1 D7	T1 D14	T1 D21	T1 D28
	231 homocysteine	31,950	68,226	136,585	78,872
	1585 homostachydrine*	33,072	52,929	41,901	49,128
	206 hydroxyisovaleroyl carnitine	197,479	198,639	214,187	192,114
	1098 hypoxanthine	22,240,624	23,073,438	30,759,420	24,490,568
	1101 inosine 5'-monophosphate (IMP)	157,625	295,160	429,261	364,028
	Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol				
	527 1,4 or 1,3-diphosphate	487,307	90,518	45,262	36,914
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate	425,998	310,659	84,013	43,295
	496 Isobar: sorbitol, mannitol	19,533,746	19,461,080	17,323,574	18,599,532
	200 isobutyrylcarnitine	136,413	107,830	135,775	109,241
	180 isoleucine	5,410,337	5,613,187	5,777,075	5,520,644
	478 isomaltose	2,415,596	1,876,714	2,429,082	1,792,855
	205 isovalerylcarnitine	92,686	88,859	98,716	96,003
	144 kynurenine	148,929	165,805	118,761	132,904
	536 lactate	1,020,426,624	1,586,645,376	2,372,599,808	2,221,599,488
	1018 lathosterol	94,639	79,268	69,071	114,548
	625 laurate (12:0)	122,574	129,266	124,453	124,539
	181 leucine	9,541,025	10,279,834	11,479,407	10,036,593

	DARM-00007	DARM-00008	DARM-00009	DARM-00010
	NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
	997730	997747	997713	997751
	991352	991353	991354	991355
	NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
T1 D7	T1 D14	T1 D21	T1 D28	
	164.122	167.3	157.075	174.895
ORDER	T1 D7	T1 D14	T1 D21	T1 D28
604 linoleate (18:2n6)	2,334,804	2,267,921	3,710,364	2,700,794
608 linolenate [alpha or gamma; (18:3n3 or 6)]	538,085	528,911	643,149	647,742
69 lysine	2,062,752	2,778,876	3,292,959	3,042,442
598 malate	1,538,423	2,000,477	3,044,240	1,877,331
482 maltose	1,299,784	1,205,586	1,626,218	1,099,212
487 mannose	12,503,923	12,644,893	16,777,872	12,748,232
489 mannose-6-phosphate	155,536	266,746	403,017	210,633
635 margarate (17:0)	374,345	469,249	508,347	340,769
658 mead acid (20:3n9)	21,454	17,829	22,165	15,984
225 methionine	675,726	518,109	424,411	379,467
890 myo-inositol	1,830,739	1,937,274	2,220,758	1,926,134
629 myristate (14:0)	614,971	753,272	899,579	658,672
630 myristoleate (14:1n5)		20,243	25,641	24,885
1242.1 N1-Methyl-2-pyridone-5-carboxamide	255,045	328,963	197,700	208,504
75 N-6-trimethyllysine	118,028	104,812	88,531	117,878
4 N-acetylglycine	129,534	82,324	129,186	81,418
227 N-acetylmethionine			4,569	3,814
455 N-acetylneuraminate	81,863	71,474	145,262	161,975
1221 nicotinamide	3,091,146	2,345,408	2,440,477	3,025,345
1224 nicotinamide adenine dinucleotide (NAD+)	5,818	3,417	3,167	2,659
825 octanoylcarnitine	50,620	58,888	74,802	70,794
639 oleate (18:1n9)	668,373	1,037,370	869,825	727,692
835 oleoylcarnitine	176,499	1,896,469	814,920	3,297,641

PATHWAY SORT

ORDER

BIOCHEMICAL NAME

	DARM-00007	DARM-00008	DARM-00009	DARM-00010
	NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
	997730	997747	997713	997751
	991352	991353	991354	991355
	NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
T1 D7	T1 D14	T1 D21	T1 D28	
	164.122	167.3	157.075	174.895
T1 D7	T1 D14	T1 D21	T1 D28	
	48,362	17,632		
	11,180,306	12,310,781	16,416,260	13,502,701
	6,535,080	8,036,350	11,042,204	7,455,168
	468,814	489,618	894,550	476,559
	14,373,302	14,891,052	19,737,722	15,219,238
	167,796	994,773	477,062	2,072,686
	93,473	99,085	117,185	124,715
	521,128	623,131	518,359	563,460
	73,964	76,929	90,547	75,245
	416,123	432,364	388,122	260,585
	199,998	216,880	280,835	198,601
	19,545	21,133	20,674	19,955
	89,135	83,598	87,730	73,734
	10,171,755	10,241,136	9,943,871	10,824,778
	761,357,696	801,848,512	1,235,966,976	1,119,354,496
	407,874	315,930	207,764	91,637
			71,275	
	101,955	110,178	89,147	101,775
	85,404	67,334	100,405	80,905
	1,854,912	1,822,370	2,373,863	2,105,123
	660,785	510,463	599,475	418,053
	7,088	10,312	14,090	9,576
	64,256	38,425	68,071	80,202
	61,129	76,329	82,322	35,852

PATHWAY SORT

ORDER BIOCHEMICAL NAME

285 ophthalmate

244 ornithine

632 palmitate (16:0)

633 palmitoleate (16:1n7)

1004 palmitoyl sphingomyelin

833 palmitoylcarnitine

1243 pantothenate

1613 paraxanthine

88 p-cresol sulfate

621 pelargonate (9:0)

631 pentadecanoate (15:0)

135 phenol sulfate

128 phenylacetylglutamine

83 phenylalanine

602 phosphate

534 phosphoenolpyruvate (PEP)

877 phosphoethanolamine

74 pipecolate

1531 piperine

246 proline

809 propionylcarnitine

1181 pseudouridine

45 pyroglutamine*

603 pyrophosphate (PPi)

DARM-00007	DARM-00008	DARM-00009	DARM-00010
NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
997730	997747	997713	997751
991352	991353	991354	991355
NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
T1 D7	T1 D14	T1 D21	T1 D28
164.122	167.3	157.075	174.895

PATHWAY SORT

ORDER BIOCHEMICAL NAME

T1 D7	T1 D14	T1 D21	T1 D28	
535 pyruvate	161,832	212,563	3,380,472	5,669,102
1469 ranitidine	353,058	350,556	432,854	336,545
548 ribitol	952,774	1,106,672	1,510,853	1,272,448
557 ribose 5-phosphate	336,985	312,301	206,851	114,607
559 ribulose	78,066	39,733	36,408	22,491
224 S-adenosylhomocysteine (SAH)	183,611	166,709	197,505	193,656
551 sedoheptulose-7-phosphate		4,142	19,453	65,317
8 serine	6,583,504	7,134,192	9,398,409	8,111,226
216 S-methylcysteine	159,794	245,038	297,871	220,667
281 S-methylglutathione	39,255	34,424	28,687	20,016
270 spermidine	912,683	1,012,005	1,172,137	1,056,876
1584 stachydrine	191,830	175,462	203,083	135,447
637 stearate (18:0)	7,362,772	8,346,579	10,687,071	7,035,826
1005 stearoyl sphingomyelin	1,292,053	1,407,098	1,641,171	1,275,791
834 stearoylcarnitine	79,051	869,075	364,794	1,557,840
591 succinylcarnitine	332,049	320,544	413,784	373,895
1662 terephthalic acid	222,330	245,689	286,506	196,772
1614 theobromine	250,330	232,698	297,421	237,998
1615 theophylline	108,799	214,130	95,077	96,974
549 threitol	1,268,397	1,470,554	2,292,753	1,636,328
1199 threonate	581,345	551,125	784,763	646,381
17 threonine	163,837	209,384	184,000	169,344
252 trans-4-hydroxyproline	40,261	46,285	37,145	44,134

DARM-00007	DARM-00008	DARM-00009	DARM-00010
NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
997730	997747	997713	997751
991352	991353	991354	991355
NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28
T1 D7	T1 D14	T1 D21	T1 D28
164.122	167.3	157.075	174.895
T1 D7	T1 D14	T1 D21	T1 D28

PATHWAY SORT

ORDER BIOCHEMICAL NAME

501 trehalose	264,414	733,871	1,123,262	1,108,517
1242 trigonelline (N ¹ -methylnicotinate)	256,829	250,492	299,135	223,820
145 tryptophan	4,409,522	4,518,646	4,357,563	4,664,176
151 tryptophan betaine	1,491,360	1,372,023	1,696,189	1,418,543
99 tyrosine	2,320,444	2,352,258	2,152,174	2,627,710
1149 urate	181,639	126,371	171,076	130,226
245 urea	31,577,746	31,722,304	40,273,300	32,665,470
1180 uridine	31,039	32,081	31,602	35,827
190 valine	9,045,619	9,410,652	9,143,607	9,538,689
565 xylitol	91,194	102,298	48,166	22,405
570 xylonate	61,581	91,428	145,463	106,285
569 xylose	92,996	241,030	498,976	395,727

DARM-00011	DARM-00012	DARM-00013	DARM-00014
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
997716	997752	997719	997724
991356	991357	991358	991359
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
C D0	C D7	C D14	C D21
193.847	179.605	175.15	167.535

PATHWAY SORT

ORDER BIOCHEMICAL NAME

ORDER	BIOCHEMICAL NAME	C D0	C D7	C D14	C D21
905	1,2-propanediol	745,465	5,542,436	11,739,036	11,456,830
532	1,3-dihydroxyacetone	91,317	83,511	86,058	71,210
515	1,5-anhydroglucitol (1,5-AG)	7,733,593	9,084,731	11,977,017	7,683,883
523	1,6-anhydroglucose	539,458	309,368	490,427	309,208
636	10-heptadecenoate (17:1n7)	47,620	56,219	63,134	101,628
742	13-methylmyristic acid	70,477	113,970	135,348	190,039
744	15-methylpalmitate (isobar with 2-methylpalmitate)	123,330	180,985	260,928	318,573
919	1-arachidonoylglycerophosphoethanolamine*	58,155	26,798	32,254	24,288
938	1-linoleoylglycerophosphocholine	418,360	241,666	330,506	270,487
926	1-myristoylglycerophosphocholine		47,843	56,395	68,330
936	1-oleoylglycerophosphocholine	35,233	115,736	365,962	467,280
915	1-oleoylglycerophosphoethanolamine	28,746	24,256	25,848	23,897
970	1-palmitoylglycerol (1-monopalmitin)	37,837	72,295	25,089	33,892
929	1-palmitoylglycerophosphocholine	264,700	731,470	2,458,075	3,139,559
909	1-palmitoylglycerophosphoethanolamine	51,268	25,055	29,190	23,716
934	1-stearoylglycerophosphocholine	126,564	382,165	866,049	1,215,477
533	2,3-diphosphoglycerate	343,615	179,751	53,276	15,958
263	2-aminobutyrate	1,550,880	1,483,557	1,833,759	1,388,255
945	2-arachidonoylglycerophosphocholine*		63,550	59,448	90,251
920	2-arachidonoylglycerophosphoethanolamine*	86,205	562,167	373,379	685,989
923	2-docosahexaenoylglycerophosphoethanolamine*		80,033	110,317	178,156
922	2-docosapentaenoylglycerophosphoethanolamine*		68,694	110,196	184,748
1360	2-ethylhexanoate (isobar with 2-propylpentanoate)	59,909	44,382	38,362	50,924
229	2-hydroxybutyrate (AHB)	1,394,679	1,303,673	1,566,481	1,387,970
714	2-hydroxyglutarate	57,644	92,289	111,144	106,544
706	2-hydroxypalmitate	67,999	43,894	86,230	49,435
939	2-linoleoylglycerophosphocholine*				267,360

DARM-00011	DARM-00012	DARM-00013	DARM-00014
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
997716	997752	997719	997724
991356	991357	991358	991359
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
C D0	C D7	C D14	C D21
193.847	179.605	175.15	167.535

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	C D0	C D7	C D14	C D21
202	2-methylbutyrylcarnitine	65,535	58,670	64,952	48,802
937	2-oleoylglycerophosphocholine*		50,257	103,141	120,696
930	2-palmitoylglycerophosphocholine*	33,346	107,667	165,617	261,996
935	2-stearoylglycerophosphocholine*		36,493	85,896	108,863
821	3-dehydrocarnitine*	906,418	961,604	1,059,317	1,106,133
170	3-indoxyl sulfate	8,937	10,009	10,315	9,144
172	3-methyl-2-oxobutyrate	45,886	35,004	49,798	65,092
173	3-methyl-2-oxovalerate	44,605	59,005	72,995	73,524
529	3-phosphoglycerate	2,267,315	1,175,531	1,150,217	730,233
193	4-methyl-2-oxopentanoate	85,775	111,910	133,265	143,553
266	5-methylthioadenosine (MTA)	34,671	98,330	101,348	104,721
282	5-oxoproline	49,723	157,770	267,387	359,615
545	6-phosphogluconate	233,923	136,218	102,403	82,150
1024	7-beta-hydroxycholesterol	23,520	18,829	35,962	
712.5	9,10-epoxyoctadec-12(Z)-enoic acid	9,135	117,159	162,516	211,099
672	9,10-epoxystearate	152,282	6,645,405	11,809,674	11,676,105
822	acetylcarnitine	3,567,269	3,127,408	3,163,545	3,080,800
601	acetylphosphate	3,521,678	3,464,525	3,399,281	2,765,531
1105	adenine	47,024,196	38,403,428	36,290,012	34,509,272
1106	adenosine	28,575	11,067	43,115	22,989
1116	adenosine 5'-diphosphate (ADP)	220,561	182,418	245,581	225,829
1232	adenosine 5'diphosphoribose	115,107	123,778	126,905	120,626
1114	adenosine 5'-monophosphate (AMP)	3,096,745	2,175,974	5,159,040	5,843,866
665	adrenate (22:4n6)	263,500	71,867	80,618	49,774

DARM-00011	DARM-00012	DARM-00013	DARM-00014
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
997716	997752	997719	997724
991356	991357	991358	991359
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
C D0	C D7	C D14	C D21
193.847	179.605	175.15	167.535

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	C D0	C D7	C D14	C D21
27	alanine	49,976,828	53,066,216	66,933,316	57,356,184
1150	allantoin	17,028	23,332	14,181	57,372
179	alpha-hydroxyisocaproate	84,320		161,549	249,219
198	alpha-hydroxyisovalerate	384,817	378,194	541,972	614,961
1266	alpha-tocopherol	350,343	286,868	314,688	216,179
1034	androsterone sulfate	5,255	4,742	5,528	3,904
566	arabinose	413,890	309,074	507,504	315,544
546	arabitol	642,209	511,500	766,245	570,469
1202	arabonate	119,653	105,824	146,365	111,321
659	arachidonate (20:4n6)	516,035	546,934	640,309	1,048,029
241	arginine	617,204	676,944	698,446	1,699,196
25	asparagine	1,352,633	1,164,342	1,243,612	963,227
24	aspartate	6,387,902	6,871,906	7,341,442	6,570,116
721	azelate (nonanedioate)	6,262	21,906	50,306	53,504
26	beta-alanine	121,915	104,975	118,882	47,145
7	beta-hydroxypyruvate	331,478	293,631	292,325	314,497
22	betaine	1,161,682	1,207,833	1,186,017	1,278,111
1057	beta-sitosterol		32,645	52,307	32,088
1216	biliverdin		23,055		20,790

DARM-00011	DARM-00012	DARM-00013	DARM-00014
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
997716	997752	997719	997724
991356	991357	991358	991359
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
C D0	C D7	C D14	C D21
193.847	179.605	175.15	167.535

PATHWAY SORT

ORDER BIOCHEMICAL NAME

C D0	C D7	C D14	C D21
	17,822		13,327
	2,753,506	2,504,050	2,881,762
		171,898	
	15,020	29,587	37,076
	111,794	69,044	57,352
	39,167	29,957	35,741
	663,728	766,394	777,366
	84,164	84,270	91,729
	27,059	32,641	27,023
	39,581,568	36,543,404	44,544,656
	697,453	753,068	881,484
	579,430	702,831	918,649
		86,998	170,842
	428,947,008	362,284,064	377,317,120
			279,634,336
	148,677	158,868	160,536
	3,147,259	3,091,284	3,350,623
	380,758	276,826	392,966
	689,943	830,427	857,522
	487,288	414,342	479,753
	25,349	30,826	36,360
	61,147	43,586	76,840
			107,997
	132,668	16,113	224,498
	247,818		246,137
	71,607	118,299	114,267
	28,612	45,242	49,538
	109,876	158,018	141,551
	551,497	432,934	558,397
	276,552	261,619	409,745
	1,020,082	1,201,194	1,627,422
	431,639	380,390	575,805
			476,161

	DARM-00011	DARM-00012	DARM-00013	DARM-00014
	NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
	997716	997752	997719	997724
	991356	991357	991358	991359
	NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
C D0	C D7	C D14	C D21	
	193.847	179.605	175.15	167.535
C D0	C D7	C D14	C D21	
876 ethanolamine	444,644	606,292	933,204	469,203
472 fructose	73,592,448	73,038,224	90,798,496	81,384,712
524 fructose-6-phosphate	506,707	494,636	793,079	687,997
594 fumarate	337,383	272,994	404,529	462,639
404 gamma-glutamylleucine	23,370	28,570	25,586	27,710
521 glucose	1,145,662,464	1,051,588,224	1,154,292,480	1,007,674,112
519 glucose-6-phosphate (G6P)	1,270,766	1,393,362	2,158,723	1,834,501
39 glutamate	6,607,252	4,784,893	6,068,648	4,895,959
44 glutamine	1,854,655	1,664,139	1,394,841	1,282,836
80 glutaroyl carnitine		15,536	11,361	20,885
283 glutathione, oxidized (GSSG)	1,536,976	1,434,289	1,156,997	1,022,837
280 glutathione, reduced (GSH)	22,156,660	26,058,072	23,415,274	22,568,236
517 glycerate	283,370	482,091	856,981	642,495
882 glycerol 3-phosphate (G3P)	384,380	295,793	381,099	290,030
883 glycerophosphorylcholine (GPC)	168,187	167,300	148,713	145,989
1 glycine	30,459,652	34,107,052	46,871,188	52,295,720
851 glycochenodeoxycholate	21,412	14,671	17,295	19,348
840 glycocholate	5,351		7,725	4,318
849 glycodeoxycholate	8,586			
1318 glycolate (hydroxyacetate)	462,094	495,049	539,603	434,382
1128 guanosine	33,726	35,356	38,938	37,136
1212 heme*	615,413	1,819,243	1,145,810	1,617,094
619 heptanoate (7:0)	15,218	20,165	20,617	16,034
823 hexanoylcarnitine	73,941	37,478	35,725	45,020
1288 hippurate	52,619	63,026	57,530	65,282
50 histidine	40,988	39,117	36,693	40,185

PATHWAY SORT

ORDER BIOCHEMICAL NAME

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00011	DARM-00012	DARM-00013	DARM-00014
		NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
		997716	997752	997719	997724
		991356	991357	991358	991359
		NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
		C D0	C D7	C D14	C D21
		193.847	179.605	175.15	167.535
		C D0	C D7	C D14	C D21
	231 homocysteine	38,651	63,085	55,863	86,413
	1585 homostachydrine*	45,480	41,047	42,057	38,489
	206 hydroxyisovaleroyl carnitine	174,483	190,571	217,050	206,799
	1098 hypoxanthine	357,857	443,716	1,540,916	2,909,897
	1101 inosine 5'-monophosphate (IMP)	122,450	208,400	343,818	191,524
	Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol				
	527 1,4 or 1,3-diphosphate	59,763	58,065	66,455	63,162
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate	189,553	84,681	151,269	100,797
	496 Isobar: sorbitol, mannitol	17,664,290	18,459,064	18,831,410	18,104,376
	200 isobutyrylcarnitine	162,344	134,814	118,448	137,637
	180 isoleucine	3,655,383	4,322,716	4,500,956	4,277,236
	478 isomaltose	1,830,657	1,377,313	2,987,101	2,023,536
	205 isovalerylcarnitine	97,051	93,569	112,835	94,010
	144 kynurenine	130,991	117,032	121,182	113,468
	536 lactate	219,773,488	668,204,544	1,320,499,968	1,502,399,360
	1018 lathosterol	115,097	81,692	91,381	66,549
	625 laurate (12:0)	101,642	115,661	87,744	130,280
	181 leucine	6,983,435	7,804,498	8,769,108	8,426,035

DARM-00011	DARM-00012	DARM-00013	DARM-00014
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
997716	997752	997719	997724
991356	991357	991358	991359
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
C D0	C D7	C D14	C D21
193.847	179.605	175.15	167.535

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	C D0	C D7	C D14	C D21
	604 linoleate (18:2n6)	1,365,113	1,457,105	2,026,197	2,989,312
	608 linolenate [alpha or gamma; (18:3n3 or 6)]	246,779	436,841	398,413	526,144
	69 lysine	2,180,764	2,605,770	4,363,680	1,926,589
	598 malate	974,764	1,099,388	1,767,475	1,549,931
	482 maltose	1,659,091	1,100,590	1,351,060	1,142,318
	487 mannose	17,039,670	15,669,026	16,297,070	13,653,562
	489 mannose-6-phosphate	239,608	267,211	398,044	351,789
	635 margarate (17:0)	262,592	310,883	453,330	447,568
	658 mead acid (20:3n9)	20,893	5,950	18,337	16,707
	225 methionine	748,963	705,926	508,402	503,209
	890 myo-inositol	2,280,102	2,075,890	2,385,278	1,672,674
	629 myristate (14:0)	401,070	723,104	820,138	976,880
	630 myristoleate (14:1n5)	14,424			45,316
1242.1	N1-Methyl-2-pyridone-5-carboxamide	292,361	299,107	196,349	249,327
75	N-6-trimethyllysine	105,525	147,909	124,055	109,690
4	N-acetylglycine	147,937	139,741	117,156	73,590
227	N-acetylmethionine	4,876		4,207	5,168
455	N-acetylneuraminat	29,955	60,023	117,358	87,067
1221	nicotinamide	2,483,235	2,287,273	3,061,721	3,744,597
1224	nicotinamide adenine dinucleotide (NAD+)	2,866	3,965	3,071	3,529
825	octanoylcarnitine	45,746	59,572	60,687	75,646
639	oleate (18:1n9)	988,918	704,987	851,576	686,319
835	oleoylcarnitine	72,832	193,833	241,106	338,804

	DARM-00011	DARM-00012	DARM-00013	DARM-00014
	NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
	997716	997752	997719	997724
	991356	991357	991358	991359
	NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
C D0	C D7	C D14	C D21	
	193.847	179.605	175.15	167.535
C D0	C D7	C D14	C D21	
	86,150	22,320		
244 ornithine	13,754,966	13,368,233	15,370,339	10,388,709
632 palmitate (16:0)	5,660,507	6,226,841	8,189,210	8,121,497
633 palmitoleate (16:1n7)	236,778	415,979	355,046	539,108
1004 palmitoyl sphingomyelin	16,914,186	14,422,895	19,492,446	14,503,270
833 palmitoylcarnitine		129,497	189,146	274,127
1243 pantothenate	108,096	83,864	119,207	106,866
1613 paraxanthine	436,920	611,989	548,293	495,671
88 p-cresol sulfate	81,349	74,739	86,044	79,590
621 pelargonate (9:0)	226,548	347,348	377,646	289,970
631 pentadecanoate (15:0)	152,004	226,215	220,682	263,728
135 phenol sulfate	20,851	19,109	23,186	25,279
128 phenylacetylglutamine	77,384	77,265	87,105	85,953
83 phenylalanine	7,762,848	9,454,861	9,785,504	10,072,558
602 phosphate	1,153,601,152	1,140,459,264	1,533,833,216	1,283,482,240
534 phosphoenolpyruvate (PEP)	377,326	230,271	80,526	62,062
877 phosphoethanolamine		67,997	130,290	
74 pipecolate	114,108	123,954	109,387	110,645
1531 piperine	131,170	70,842	72,463	83,012
246 proline	1,958,820	1,803,254	2,195,216	2,064,586
809 propionylcarnitine	757,385	636,318	705,852	663,757
1181 pseudouridine	10,591	8,542	11,482	16,321
45 pyroglutamine*	82,600	49,694	74,796	56,790
603 pyrophosphate (PPi)	192,657	169,938	51,439	16,184

PATHWAY SORT

ORDER BIOCHEMICAL NAME

285 ophthalmate

244 ornithine

632 palmitate (16:0)

633 palmitoleate (16:1n7)

1004 palmitoyl sphingomyelin

833 palmitoylcarnitine

1243 pantothenate

1613 paraxanthine

88 p-cresol sulfate

621 pelargonate (9:0)

631 pentadecanoate (15:0)

135 phenol sulfate

128 phenylacetylglutamine

83 phenylalanine

602 phosphate

534 phosphoenolpyruvate (PEP)

877 phosphoethanolamine

74 pipecolate

1531 piperine

246 proline

809 propionylcarnitine

1181 pseudouridine

45 pyroglutamine*

603 pyrophosphate (PPi)

DARM-00011	DARM-00012	DARM-00013	DARM-00014
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
997716	997752	997719	997724
991356	991357	991358	991359
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21
C D0	C D7	C D14	C D21
193.847	179.605	175.15	167.535

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	C D0	C D7	C D14	C D21
535	pyruvate	2,754,908	2,835,749	3,752,118	1,589,179
1469	ranitidine	377,435	305,239	414,925	385,438
548	ribitol	238,729	163,572	277,166	207,410
557	ribose 5-phosphate	231,690	175,353	169,389	108,367
559	ribulose		23,478	13,883	18,999
224	S-adenosylhomocysteine (SAH)	121,506	191,402	226,296	252,239
551	sedoheptulose-7-phosphate	18,716	141,133	35,476	66,973
8	serine	6,690,800	6,545,978	7,781,857	6,767,347
216	S-methylcysteine	215,932	268,168	275,732	219,059
281	S-methylglutathione	31,160	30,894	30,219	28,836
270	spermidine	893,702	1,022,620	1,170,312	1,280,653
1584	stachydrine	197,827	178,193	184,074	248,399
637	stearate (18:0)	5,334,110	6,137,328	8,682,885	8,213,118
1005	stearoyl sphingomyelin	1,509,931	1,352,906	1,595,698	1,321,143
834	stearoylcarnitine	39,964	70,787	114,185	140,880
591	succinylcarnitine	339,675	297,560	364,784	399,232
1662	terephthalic acid	291,667	259,547	236,052	232,314
1614	theobromine	330,840	250,101	299,885	304,534
1615	theophylline	72,301	99,675	182,464	135,783
549	threitol	1,118,487	1,241,592	1,603,978	1,310,499
1199	threonate	613,251	486,071	626,715	513,435
17	threonine	175,088	150,748	161,778	183,176
252	trans-4-hydroxyproline	39,439	44,770	40,694	39,766

DARM-00011	DARM-00012	DARM-00013	DARM-00014	
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21	
	997716	997752	997719	997724
	991356	991357	991358	991359
NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21	
C D0	C D7	C D14	C D21	
	193.847	179.605	175.15	167.535
C D0	C D7	C D14	C D21	

PATHWAY SORT

ORDER BIOCHEMICAL NAME

501 trehalose	97,806	518,969	1,111,288	837,693
1242 trigonelline (N ¹ -methylnicotinate)	264,197	236,175	265,502	278,679
145 tryptophan	3,631,722	4,102,700	4,409,757	4,285,182
151 tryptophan betaine	1,431,999	1,407,965	1,578,823	1,595,563
99 tyrosine	1,799,546	2,228,006	2,271,666	2,324,717
1149 urate	181,254	155,272	189,889	168,887
245 urea	33,063,718	31,198,160	34,479,028	30,550,978
1180 uridine	17,807	22,788	21,241	24,467
190 valine	7,813,211	8,622,408	8,899,696	9,083,185
565 xylitol				
570 xylonate	37,575	49,461	102,285	98,514
569 xylose	75,703	60,204	107,993	93,872

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00015	DARM-00016	DARM-00017	DARM-00018
		NHSCi 2003 C D28	NHSCI 1866 T2	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14
		997729	997715	997736	997748
		991360	991361	991362	991363
		NHSCi 2003 C D28	NHSCI 1866 T2 D0	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14
		C D28	T2 D0	T2 D7	T2 D14
		175.121	176.276	164.34	172.339
		C D28	T2 D0	T2 D7	T2 D14
905	1,2-propanediol	14,866,116	4,732,242	8,877,082	11,024,061
532	1,3-dihydroxyacetone	71,487	72,315	88,302	97,843
515	1,5-anhydroglucitol (1,5-AG)	9,799,194	6,314,912	8,753,204	7,350,232
523	1,6-anhydroglucose	378,368	331,929	288,474	281,344
636	10-heptadecenoate (17:1n7)	99,983	52,221	74,115	78,955
742	13-methylmyristic acid	174,351	57,251	95,666	116,603
744	15-methylpalmitate (isobar with 2-methylpalmitate)	338,906	139,630	214,022	265,868
919	1-arachidonoylglycerophosphoethanolamine*	20,429	64,481	26,055	25,200
938	1-linoleoylglycerophosphocholine	239,615	470,973	236,606	229,663
926	1-myristoylglycerophosphocholine	108,714		66,246	74,117
936	1-oleoylglycerophosphocholine	878,497	187,460	562,279	471,502
915	1-oleoylglycerophosphoethanolamine	16,921	50,751	34,814	11,474
970	1-palmitoylglycerol (1-monopalmitin)	30,950	38,448	15,764	31,982
929	1-palmitoylglycerophosphocholine	5,900,696	1,036,902	2,900,194	2,563,844
909	1-palmitoylglycerophosphoethanolamine	24,537	43,399	16,194	13,889
934	1-stearoylglycerophosphocholine	1,988,020	371,740	1,164,406	1,296,232
533	2,3-diphosphoglycerate	17,146	347,674	100,045	17,657
263	2-aminobutyrate	1,589,408	2,218,991	2,722,774	2,667,683
945	2-arachidonoylglycerophosphocholine*	192,300	35,575	168,711	202,691
920	2-arachidonoylglycerophosphoethanolamine*	1,437,579	323,714	1,573,934	1,967,320
923	2-docosahexaenoylglycerophosphoethanolamine*	340,603	111,767	269,754	426,141
922	2-docosapentaenoylglycerophosphoethanolamine*	395,785	89,351	335,291	391,305
1360	2-ethylhexanoate (isobar with 2-propylpentanoate)	32,439	44,590	38,235	32,175
229	2-hydroxybutyrate (AHB)	1,364,453	1,460,712	1,701,494	1,801,408
714	2-hydroxyglutarate	115,945	107,074	126,439	174,700
706	2-hydroxypalmitate	47,298	74,240	39,214	43,962
939	2-linoleoylglycerophosphocholine*	419,326		351,103	307,996

DARM-00015	DARM-00016	DARM-00017	DARM-00018
NHSCi 2003 C D28	NHSCI 1866 T2	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14
997729	997715	997736	997748
991360	991361	991362	991363
NHSCi 2003 C D28	NHSCI 1866 T2 D0	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14
C D28	T2 D0	T2 D7	T2 D14
175.121	176.276	164.34	172.339

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	C D28	T2 D0	T2 D7	T2 D14
202	2-methylbutyrylcarnitine	61,392	79,619	56,933	56,908
937	2-oleoylglycerophosphocholine*	184,264	93,762	195,387	179,311
930	2-palmitoylglycerophosphocholine*	410,775	110,801	303,985	360,238
935	2-stearoylglycerophosphocholine*	112,720		112,650	90,132
821	3-dehydrocarnitine*	1,138,316	1,034,712	1,034,847	1,061,604
170	3-indoxyl sulfate	8,839	4,230	4,984	3,892
172	3-methyl-2-oxobutyrate	39,850	50,607	57,731	52,980
173	3-methyl-2-oxovalerate	63,333	46,637	56,752	56,915
529	3-phosphoglycerate	694,597	1,172,991	1,040,874	476,708
193	4-methyl-2-oxopentanoate	107,035	106,251	132,158	136,134
266	5-methylthioadenosine (MTA)	107,301	40,681	101,342	123,505
282	5-oxoproline	442,655	56,665	183,699	294,942
545	6-phosphogluconate	44,588	47,121	84,215	40,442
1024	7-beta-hydroxycholesterol	15,910	45,740	12,939	29,835
712.5	9,10-epoxyoctadec-12(Z)-enoic acid	247,076	6,772	104,834	140,798
672	9,10-epoxystearate	13,436,268	231,764	5,225,775	6,967,034
822	acetylcarnitine	3,041,098	4,375,307	3,964,733	3,815,497
601	acetylphosphate	3,160,937	3,260,516	3,741,576	4,005,335
1105	adenine	33,779,032	41,717,592	29,851,106	19,291,972
1106	adenosine	23,027	18,010	16,994	15,771
1116	adenosine 5'-diphosphate (ADP)	198,708	244,579	182,650	185,946
1232	adenosine 5'diphosphoribose	117,490	95,636	105,344	99,959
1114	adenosine 5'-monophosphate (AMP)	6,139,028	4,370,879	4,075,112	4,442,594
665	adrenate (22:4n6)	30,848	98,456	110,541	54,285

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00015	DARM-00016	DARM-00017	DARM-00018
		NHSCi 2003 C D28	NHSCi 1866 T2	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14
		997729	997715	997736	997748
		991360	991361	991362	991363
		NHSCi 2003 C D28	NHSCi 1866 T2 D0	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14
		C D28	T2 D0	T2 D7	T2 D14
		175.121	176.276	164.34	172.339
		C D28	T2 D0	T2 D7	T2 D14
	27 alanine	61,188,412	52,278,748	65,398,400	70,100,184
	1150 allantoin	40,558	51,408	13,998	16,388
	179 alpha-hydroxyisocaproate	331,016			188,710
	198 alpha-hydroxyisovalerate	793,435	309,467	289,582	363,053
	1266 alpha-tocopherol	230,446	168,019	165,014	149,210
	1034 androsterone sulfate	4,606	8,676	6,634	7,606
	566 arabinose	349,319	339,400	330,925	390,921
	546 arabitol	680,380	573,597	548,209	500,688
	1202 arabonate	126,756	74,847	111,315	94,048
	659 arachidonate (20:4n6)	1,000,687	462,961	570,460	730,649
	241 arginine	1,208,572	383,363	862,572	699,121
	25 asparagine	933,457	1,574,333	1,538,009	1,474,817
	24 aspartate	7,139,496	2,427,314	2,836,212	3,263,091
	721 azelate (nonanedioate)	73,267	6,300	18,510	27,122
	26 beta-alanine	88,894	176,953	157,935	201,987
	7 beta-hydroxypyruvate	297,446	163,622	322,000	307,210
	22 betaine	1,323,155	1,565,390	1,629,721	1,668,581
	1057 beta-sitosterol		61,653		
	1216 biliverdin	21,234	27,466	28,173	60,384

DARM-00015	DARM-00016	DARM-00017	DARM-00018
NHSCi 2003 C D28	NHSCI 1866 T2	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14
997729	997715	997736	997748
991360	991361	991362	991363
NHSCi 2003 C D28	NHSCI 1866 T2 D0	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14
C D28	T2 D0	T2 D7	T2 D14
175.121	176.276	164.34	172.339

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	C D28	T2 D0	T2 D7	T2 D14
811	butyrylcarnitine	16,837		15,149	35,750
1612	caffeine	2,399,502	3,775,415	3,358,247	3,312,058
1059	campesterol	284,834	225,673	229,713	301,398
622	caprate (10:0)	35,912	16,425	27,932	36,590
618	caproate (6:0)	56,028	70,295	72,782	40,854
620	caprylate (8:0)	32,087	22,626	39,802	41,971
820	carnitine	653,067	859,212	991,410	1,012,787
1300	catechol sulfate	84,580	79,972	80,017	77,623
164	C-glycosyltryptophan*	38,375	28,156	26,892	42,941
1020	cholesterol	35,386,532	33,105,708	36,210,112	39,926,704
881	choline	892,647	2,108,159	2,168,710	1,975,017
582	cis-aconitate	660,396	654,765	848,362	895,162
641	cis-vaccenate (18:1n7)	142,832	92,262	192,807	
579	citrate	271,567,296	279,913,504	256,853,264	229,689,984
248	citrulline	164,472	99,062	118,712	103,896
259	creatine	3,249,477	3,702,736	3,753,894	3,788,817
260	creatinine	373,217	416,801	391,170	393,564
213	cysteine	1,439,629	402,681	606,589	971,630
819	deoxycarnitine	523,098	603,374	582,634	695,545
655	dihomo-linoleate (20:2n6)	54,579	43,078	50,055	58,270
609	dihomo-linolenate (20:3n3 or n6)	97,308	55,866	57,143	59,631
531	dihydroxyacetone phosphate (DHAP)			36,202	
3	dimethylglycine	306,640	193,695	256,734	276,553
613	docosahexaenoate (DHA; 22:6n3)	193,359	74,426	110,271	175,133
611	docosapentaenoate (n3 DPA; 22:5n3)	99,741	33,554	56,770	79,940
610	eicosapentaenoate (EPA; 20:5n3)	286,520	58,980	132,608	147,182
1565	ergothioneine	527,747	973,519	839,918	835,805
735	erucamide	348,482	990,856	106,333	279,766
1632	erythritol	2,388,445	762,988	1,085,846	1,349,400
453	erythronate*	564,772	349,645	407,211	553,933

	DARM-00015	DARM-00016	DARM-00017	DARM-00018
	NHSCi 2003 C D28	NHSCi 1866 T2	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14
	997729	997715	997736	997748
	991360	991361	991362	991363
	NHSCi 2003 C D28	NHSCi 1866 T2 D0	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14
C D28	T2 D0	T2 D7	T2 D14	
	175.121	176.276	164.34	172.339
C D28	T2 D0	T2 D7	T2 D14	
	641,402	553,372	603,424	942,185
472 fructose	91,205,144	62,306,108	74,201,088	79,748,064
524 fructose-6-phosphate	602,655	417,025	472,346	477,267
594 fumarate	445,347	321,557	363,352	402,505
404 gamma-glutamylleucine	19,611	27,674	16,689	21,436
521 glucose	1,038,950,976	1,010,169,664	1,061,818,688	1,085,405,312
519 glucose-6-phosphate (G6P)	1,796,014	1,160,047	1,612,947	1,263,673
39 glutamate	4,997,358	7,168,533	7,080,612	7,595,470
44 glutamine	1,192,279	1,877,726	1,544,420	1,460,887
80 glutaroyl carnitine	17,852	16,176	19,782	16,720
283 glutathione, oxidized (GSSG)	852,735	1,442,111	1,228,827	1,032,453
280 glutathione, reduced (GSH)	21,059,756	23,449,578	20,390,998	24,802,908
517 glycerate	920,270	221,452	412,063	505,355
882 glycerol 3-phosphate (G3P)	305,658	387,761	302,234	298,426
883 glycerophosphorylcholine (GPC)	157,840	144,957	145,898	143,193
1 glycine	59,083,828	23,479,246	37,560,636	47,368,668
851 glycochenodeoxycholate	16,296	150,818	98,974	89,512
840 glycocholate	6,863	58,682	49,881	51,519
849 glycodeoxycholate	8,151	43,610	39,689	37,498
1318 glycolate (hydroxyacetate)	412,571	323,106	432,862	445,637
1128 guanosine	40,252	36,267	35,052	29,112
1212 heme*	2,458,107	1,337,160	3,359,267	4,162,878
619 heptanoate (7:0)	20,413	12,629	19,636	14,543
823 hexanoylcarnitine	57,650	44,588	29,539	29,724
1288 hippurate	52,762	54,942	49,193	49,802
50 histidine	39,191	48,469	45,404	44,749

PATHWAY SORT

ORDER **BIOCHEMICAL NAME**
876 ethanolamine

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00015	DARM-00016	DARM-00017	DARM-00018
		NHSCi 2003 C D28	NHSCi 1866 T2	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14
		997729	997715	997736	997748
		991360	991361	991362	991363
		NHSCi 2003 C D28	NHSCi 1866 T2 D0	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14
		C D28	T2 D0	T2 D7	T2 D14
		175.121	176.276	164.34	172.339
		C D28	T2 D0	T2 D7	T2 D14
	231 homocysteine	101,404	18,296	28,609	63,628
	1585 homostachydrine*	42,532	35,635	33,901	34,260
	206 hydroxyisovaleroyl carnitine	199,428	433,188	383,050	364,332
	1098 hypoxanthine	5,726,936	184,379	188,554	1,010,152
	1101 inosine 5'-monophosphate (IMP)	210,439	164,643	340,178	524,568
	Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol				
	527 1,4 or 1,3-diphosphate	60,260	59,340	62,915	52,665
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate	95,608	81,353	87,471	80,990
	496 Isobar: sorbitol, mannitol	17,766,824	18,403,908	18,956,124	18,274,208
	200 isobutyrylcarnitine	136,153	179,779	169,293	147,503
	180 isoleucine	4,660,911	4,070,097	4,618,131	4,576,028
	478 isomaltose	2,150,195	1,501,424	2,617,697	2,077,336
	205 isovalerylcarnitine	105,522	98,832	101,153	87,227
	144 kynurenine	125,784	118,545	162,325	121,238
	536 lactate	1,801,197,568	282,948,320	856,344,512	1,232,642,048
	1018 lathosterol	77,125		45,256	49,652
	625 laurate (12:0)	131,042	90,667	103,770	118,520
	181 leucine	8,996,487	8,485,215	9,793,614	10,022,278

	DARM-00015	DARM-00016	DARM-00017	DARM-00018
	NHSCi 2003 C D28	NHSCi 1866 T2	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14
	997729	997715	997736	997748
	991360	991361	991362	991363
	NHSCi 2003 C D28	NHSCi 1866 T2 D0	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14
	C D28	T2 D0	T2 D7	T2 D14
	175.121	176.276	164.34	172.339
	C D28	T2 D0	T2 D7	T2 D14
604 linoleate (18:2n6)	2,854,648	2,121,206	2,520,759	2,934,382
608 linolenate [alpha or gamma; (18:3n3 or 6)]	684,028	289,340	520,360	555,806
69 lysine	1,159,421	2,689,346	2,846,649	2,973,361
598 malate	1,817,132	1,183,954	1,605,431	1,604,171
482 maltose	1,300,158	1,004,487	1,156,125	1,235,795
487 mannose	13,775,427	12,921,835	13,585,284	14,283,581
489 mannose-6-phosphate	295,219	205,612	214,854	215,244
635 margarate (17:0)	473,674	327,403	397,583	450,271
658 mead acid (20:3n9)	27,230	17,690	13,632	7,257
225 methionine	400,754	871,642	851,631	627,433
890 myo-inositol	1,943,253	2,177,501	2,240,130	2,466,853
629 myristate (14:0)	842,193	456,894	671,825	734,894
630 myristoleate (14:1n5)	25,634	19,786		27,574
1242.1 N1-Methyl-2-pyridone-5-carboxamide	226,365	128,853	112,583	131,173
75 N-6-trimethyllysine	129,954	207,432	199,288	154,487
4 N-acetylglycine		60,738	81,754	90,906
227 N-acetylmethionine	5,332	7,472	4,206	
455 N-acetylneuraminate	148,623	41,797	82,781	83,927
1221 nicotinamide	2,757,552	2,102,704	2,434,348	2,266,781
1224 nicotinamide adenine dinucleotide (NAD+)	2,285	3,452	4,281	8,362
825 octanoylcarnitine	69,006	84,208	85,071	82,106
639 oleate (18:1n9)	620,775	727,388	690,991	942,979
835 oleoylcarnitine	588,338	344,844	1,004,542	1,699,879

PATHWAY SORT

ORDER BIOCHEMICAL NAME

	DARM-00015	DARM-00016	DARM-00017	DARM-00018
	NHSCi 2003 C D28	NHSCi 1866 T2	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14
	997729	997715	997736	997748
	991360	991361	991362	991363
	NHSCi 2003 C D28	NHSCi 1866 T2 D0	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14
	C D28	T2 D0	T2 D7	T2 D14
	175.121	176.276	164.34	172.339
	C D28	T2 D0	T2 D7	T2 D14
		184,491	61,277	22,451
244 ornithine	12,108,834	11,520,120	13,073,590	14,296,622
632 palmitate (16:0)	8,343,986	7,214,126	7,140,379	7,853,787
633 palmitoleate (16:1n7)	643,264	251,585	372,897	380,516
1004 palmitoyl sphingomyelin	15,744,304	14,751,954	15,966,146	17,801,990
833 palmitoylcarnitine	448,923	231,236	538,860	916,355
1243 pantothenate	111,153	94,658	100,994	100,503
1613 paraxanthine	511,703	388,352	525,707	512,656
88 p-cresol sulfate	76,301	45,396	45,541	45,250
621 pelargonate (9:0)	327,609	172,490	370,622	309,845
631 pentadecanoate (15:0)	222,446	166,204	200,364	228,140
135 phenol sulfate	19,582	19,408	18,741	17,671
128 phenylacetylglutamine	80,435	42,162	41,085	44,814
83 phenylalanine	10,595,847	6,835,470	8,864,478	9,102,095
602 phosphate	1,339,702,400	1,002,410,304	1,223,869,696	1,298,603,008
534 phosphoenolpyruvate (PEP)	43,910	239,214	108,179	32,033
877 phosphoethanolamine	65,341	74,125	80,273	110,292
74 pipecolate	106,018	81,418	105,961	86,742
1531 piperine	91,726	171,368	158,498	96,931
246 proline	2,149,858	2,163,042	2,082,362	2,052,232
809 propionylcarnitine	626,733	1,427,119	1,222,332	1,100,619
1181 pseudouridine	11,694	8,866	9,968	8,311
45 pyroglutamine*	62,240	173,894	187,319	172,320
603 pyrophosphate (PPi)	35,022	148,198	171,827	84,463

PATHWAY SORT

ORDER BIOCHEMICAL NAME

285 ophthalmate

244 ornithine

632 palmitate (16:0)

633 palmitoleate (16:1n7)

1004 palmitoyl sphingomyelin

833 palmitoylcarnitine

1243 pantothenate

1613 paraxanthine

88 p-cresol sulfate

621 pelargonate (9:0)

631 pentadecanoate (15:0)

135 phenol sulfate

128 phenylacetylglutamine

83 phenylalanine

602 phosphate

534 phosphoenolpyruvate (PEP)

877 phosphoethanolamine

74 pipecolate

1531 piperine

246 proline

809 propionylcarnitine

1181 pseudouridine

45 pyroglutamine*

603 pyrophosphate (PPi)

DARM-00015	DARM-00016	DARM-00017	DARM-00018
NHSCi 2003 C D28	NHSCI 1866 T2	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14
997729	997715	997736	997748
991360	991361	991362	991363
NHSCi 2003 C D28	NHSCI 1866 T2 D0	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14
C D28	T2 D0	T2 D7	T2 D14
175.121	176.276	164.34	172.339

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	C D28	T2 D0	T2 D7	T2 D14
535	pyruvate	1,383,204	3,683,327	3,732,736	1,684,570
1469	ranitidine	378,825			
548	ribitol	254,906	169,871	273,815	134,022
557	ribose 5-phosphate	140,262	125,677	110,459	111,884
559	ribulose	17,431	29,385	17,277	18,080
224	S-adenosylhomocysteine (SAH)	243,619	134,789	219,723	194,554
551	sedoheptulose-7-phosphate	84,948	18,377	71,220	85,223
8	serine	7,395,738	7,074,594	8,687,528	8,759,669
216	S-methylcysteine	206,354	71,654	72,071	53,316
281	S-methylglutathione	28,458	20,277	43,484	27,756
270	spermidine	1,335,984	1,430,269	1,618,862	1,603,250
1584	stachydrine	183,012	3,405,363	3,532,005	3,353,102
637	stearate (18:0)	7,997,423	6,666,030	7,771,983	8,372,065
1005	stearoyl sphingomyelin	1,438,372	1,084,208	1,064,038	1,322,722
834	stearoylcarnitine	318,485	146,101	380,748	709,417
591	succinylcarnitine	399,279	571,063	601,544	613,988
1662	terephthalic acid	222,876	384,837	347,127	428,126
1614	theobromine	362,523	169,101	139,337	341,773
1615	theophylline	127,469	94,936	86,851	92,224
549	threitol	1,508,355	671,375	827,647	962,741
1199	threonate	535,658	478,661	532,947	529,854
17	threonine	182,269	190,291	237,555	262,031
252	trans-4-hydroxyproline	43,731	27,048	23,987	26,953

DARM-00015	DARM-00016	DARM-00017	DARM-00018	
NHSCi 2003 C D28	NHSCi 1866 T2	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14	
	997729	997715	997736	997748
	991360	991361	991362	991363
NHSCi 2003 C D28	NHSCi 1866 T2 D0	NHSCi 1866 T2 D7	NHSCi 1866 T2 D14	
C D28	T2 D0	T2 D7	T2 D14	
	175.121	176.276	164.34	172.339
C D28	T2 D0	T2 D7	T2 D14	

PATHWAY SORT

ORDER BIOCHEMICAL NAME

501 trehalose	996,469	157,424	621,208	1,077,238
1242 trigonelline (N ¹ -methylnicotinate)	259,666	490,459	492,993	486,486
145 tryptophan	4,533,571	3,590,607	4,486,706	4,359,510
151 tryptophan betaine	1,521,566	4,557,345	4,402,292	4,252,671
99 tyrosine	2,238,650	2,410,461	2,769,754	2,872,390
1149 urate	153,368	214,504	183,618	163,812
245 urea	34,159,176	23,854,346	28,532,186	28,787,614
1180 uridine	20,164	27,493	30,559	35,443
190 valine	9,392,703	9,301,228	10,405,112	11,047,712
565 xylitol	12,425			
570 xylonate	87,714	63,458	48,256	75,641
569 xylose	83,277		124,820	91,754

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00019	DARM-00020	DARM-00021	DARM-00022
		NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1	NHSCI 1866 T1 D7
		997740	997720	997746	997738
		991364	991365	991366	991367
		NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7
		T2 D21	T2 D28	T1 D0	T1 D7
		203.125	169.237	179.08	165.545
		T2 D21	T2 D28	T1 D0	T1 D7
905	1,2-propanediol	12,988,405	17,579,018	4,883,337	11,158,786
532	1,3-dihydroxyacetone	71,598	87,438	95,508	58,140
515	1,5-anhydroglucitol (1,5-AG)	7,769,879	6,815,589	6,894,500	6,652,106
523	1,6-anhydroglucose	313,780	298,975	327,056	482,878
636	10-heptadecenoate (17:1n7)	99,381	121,017	58,306	82,459
742	13-methylmyristic acid	118,800	195,899	82,759	99,940
744	15-methylpalmitate (isobar with 2-methylpalmitate)	275,938	439,076	117,415	189,105
919	1-arachidonoylglycerophosphoethanolamine*	31,432	25,317	23,213	19,593
938	1-linoleoylglycerophosphocholine	272,364	335,274	233,853	239,863
926	1-myristoylglycerophosphocholine	64,906	79,486		87,388
936	1-oleoylglycerophosphocholine	392,551	976,080	132,943	1,797,474
915	1-oleoylglycerophosphoethanolamine	17,977	22,455	16,684	9,933
970	1-palmitoylglycerol (1-monopalmitin)	44,231	63,395	20,584	45,829
929	1-palmitoylglycerophosphocholine	2,302,004	5,330,005	762,895	8,022,161
909	1-palmitoylglycerophosphoethanolamine	16,633	24,392	13,802	15,749
934	1-stearoylglycerophosphocholine	1,479,612	2,051,804	261,966	3,126,313
533	2,3-diphosphoglycerate	3,820		424,122	476,646
263	2-aminobutyrate	2,866,594	2,636,668	2,360,075	2,292,059
945	2-arachidonoylglycerophosphocholine*	182,369	214,159	83,937	406,006
920	2-arachidonoylglycerophosphoethanolamine*	1,710,407	1,987,412	404,129	3,423,001
923	2-docosahexaenoylglycerophosphoethanolamine*	325,072	350,497	120,514	822,177
922	2-docosapentaenoylglycerophosphoethanolamine*	504,217	540,002	150,283	1,058,896
1360	2-ethylhexanoate (isobar with 2-propylpentanoate)	29,405	27,464	21,764	38,147
229	2-hydroxybutyrate (AHB)	1,824,982	1,624,975	1,755,588	1,668,014
714	2-hydroxyglutarate	183,311	267,356	86,275	293,229
706	2-hydroxypalmitate	41,185	53,740	34,513	45,504
939	2-linoleoylglycerophosphocholine*	358,967	266,997		603,328

DARM-00019	DARM-00020	DARM-00021	DARM-00022	
NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1	NHSCI 1866 T1 D7	
	997740	997720	997746	997738
	991364	991365	991366	991367
NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7	
T2 D21	T2 D28	T1 D0	T1 D7	
	203.125	169.237	179.08	165.545

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	T2 D21	T2 D28	T1 D0	T1 D7
202	2-methylbutyrylcarnitine	59,511	65,353	59,371	54,524
937	2-oleoylglycerophosphocholine*	125,320	187,515	83,221	408,239
930	2-palmitoylglycerophosphocholine*	382,178	456,156	41,157	677,752
935	2-stearoylglycerophosphocholine*	137,857	141,873	17,302	168,910
821	3-dehydrocarnitine*	1,041,111	1,180,521	919,964	1,024,916
170	3-indoxyl sulfate	4,891	4,909	3,088	3,604
172	3-methyl-2-oxobutyrate	43,501	35,532	26,163	
173	3-methyl-2-oxovalerate	62,630	58,615	45,616	28,256
529	3-phosphoglycerate	339,502	337,094	2,994,259	1,768,015
193	4-methyl-2-oxopentanoate	116,109	100,533	91,059	43,289
266	5-methylthioadenosine (MTA)	131,980	100,486	50,073	124,318
282	5-oxoproline	389,006	561,164	60,006	215,000
545	6-phosphogluconate		59,070	65,019	49,694
1024	7-beta-hydroxycholesterol		31,852	39,027	25,325
712.5	9,10-epoxyoctadec-12(Z)-enoic acid	184,958	230,491	15,807	112,411
672	9,10-epoxystearate	8,035,032	10,290,958	262,413	5,419,621
822	acetylcarnitine	3,643,731	3,616,617	3,699,032	3,956,132
601	acetylphosphate	3,549,777	3,362,782	3,269,842	3,340,224
1105	adenine	14,296,981	10,888,939	38,773,896	39,361,264
1106	adenosine	27,384	30,660	16,531	33,120
1116	adenosine 5'-diphosphate (ADP)	173,006	179,982	169,042	148,837
1232	adenosine 5'diphosphoribose	90,260	75,788	97,530	119,749
1114	adenosine 5'-monophosphate (AMP)	5,220,412	7,785,904	2,825,064	3,599,888
665	adrenate (22:4n6)	139,089	129,986	251,158	40,106

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00019	DARM-00020	DARM-00021	DARM-00022
		NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1	NHSCI 1866 T1 D7
		997740	997720	997746	997738
		991364	991365	991366	991367
		NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7
		T2 D21	T2 D28	T1 D0	T1 D7
		203.125	169.237	179.08	165.545
		T2 D21	T2 D28	T1 D0	T1 D7
		69,618,664	70,075,624	49,597,364	52,059,648
27	alanine				
1150	allantoin	33,353	34,494	13,333	22,227
179	alpha-hydroxyisocaproate	272,954	388,477		257,854
198	alpha-hydroxyisovalerate	610,933	905,115	501,450	1,242,532
1266	alpha-tocopherol	164,265	147,588	161,150	130,569
1034	androsterone sulfate	7,775	8,716	7,495	8,312
566	arabinose	327,335	363,255	359,675	409,806
546	arabitol	650,758	587,747	492,839	781,818
1202	arabonate	87,604	111,541	91,880	107,463
659	arachidonate (20:4n6)	1,035,176	1,445,696	415,619	641,629
241	arginine	823,418	2,158,228	674,520	847,895
25	asparagine	1,355,122	1,037,958	1,632,671	1,672,673
24	aspartate	4,061,158	3,382,174	4,605,921	4,713,740
721	azelate (nonanedioate)	42,878	49,992	5,912	17,650
26	beta-alanine	150,330	58,525	155,782	151,518
7	beta-hydroxypyruvate	263,380	307,563	255,303	262,860
22	betaine	1,661,101	1,652,498	1,592,822	1,685,309
1057	beta-sitosterol	51,142	46,068	45,816	46,029
1216	biliverdin	60,683	49,190	18,414	86,882

DARM-00019	DARM-00020	DARM-00021	DARM-00022	
NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1	NHSCI 1866 T1 D7	
	997740	997720	997746	997738
	991364	991365	991366	991367
NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7	
T2 D21	T2 D28	T1 D0	T1 D7	
	203.125	169.237	179.08	165.545

PATHWAY SORT

ORDER BIOCHEMICAL NAME

T2 D21	T2 D28	T1 D0	T1 D7	
	15,882	14,181	28,350	16,237
	3,541,355	3,056,576	2,968,486	3,125,682
	229,315			205,461
	31,823	34,835	16,366	25,727
	43,562	51,821	43,667	57,151
	60,793	54,301	19,984	62,170
	975,356	1,027,886	972,927	989,284
	78,314	80,056	80,586	83,616
	36,197	26,920	26,946	24,759
	37,924,164	36,418,236	37,268,052	36,268,140
	2,121,928	2,141,355	2,136,781	2,176,103
	948,779	1,049,116	548,775	845,962
	191,206	122,033	156,317	335,037
	214,941,248	182,096,240	301,815,680	271,697,088
	132,630	112,217	110,256	101,075
	3,726,428	3,760,821	3,528,599	3,766,965
	453,973	421,680	407,646	370,191
	1,469,723	1,499,818	486,877	418,808
	567,749	604,672	516,383	581,091
	68,472	97,515	36,918	60,112
	85,816	106,351	47,939	59,294
	36,450	14,876	1,726,288	3,554,937
	490,315	405,000	270,058	234,698
	198,626	240,531	72,313	153,300
	93,726	133,260	35,471	61,087
	191,871	211,947	154,648	145,613
	825,681	947,207	730,661	812,798
	322,761	205,025	864,326	368,533
	1,583,447	1,723,622	864,946	1,406,027
	544,325	632,895	349,267	573,851

		DARM-00019	DARM-00020	DARM-00021	DARM-00022	
		NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1	NHSCI 1866 T1 D7	
			997740	997720	997746	997738
			991364	991365	991366	991367
		NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7	
		T2 D21	T2 D28	T1 D0	T1 D7	
			203.125	169.237	179.08	165.545
PATHWAY SORT		T2 D21	T2 D28	T1 D0	T1 D7	
ORDER	BIOCHEMICAL NAME		817,581	449,802	398,511	614,570
876	ethanolamine					
472	fructose	84,917,432	76,978,512	61,459,480	46,021,040	
524	fructose-6-phosphate	348,462	558,766	199,972	460,074	
594	fumarate	452,332	677,878	298,892	557,441	
404	gamma-glutamylleucine	20,341		29,980	33,534	
521	glucose	1,036,868,032	1,081,754,368	1,063,524,672	1,053,441,792	
519	glucose-6-phosphate (G6P)	992,712	1,678,752	325,699	219,862	
39	glutamate	6,926,577	7,878,551	7,916,416	8,248,287	
44	glutamine	1,349,251	1,070,462	1,897,135	1,391,232	
80	glutaroyl carnitine	20,693	17,280	13,402	12,278	
283	glutathione, oxidized (GSSG)	904,246	913,998	1,700,524	1,169,490	
280	glutathione, reduced (GSH)	22,826,626	19,206,434	24,510,320	18,046,108	
517	glycerate	705,096	710,916	335,496	2,455,053	
882	glycerol 3-phosphate (G3P)	336,971	295,156	760,290	1,057,582	
883	glycerophosphorylcholine (GPC)	145,826	139,502	153,165	146,334	
1	glycine	54,611,724	70,597,176	27,344,856	32,933,818	
851	glycochenodeoxycholate	105,234	93,996	95,013	106,437	
840	glycocholate	58,328	60,700	51,839	55,294	
849	glycodeoxycholate	46,414	44,025	27,804	32,978	
1318	glycolate (hydroxyacetate)	377,606	350,231	366,458	371,036	
1128	guanosine	17,236	25,314	28,931	31,015	
1212	heme*	2,404,961	2,028,298	2,018,425	9,060,939	
619	heptanoate (7:0)	17,772	19,096	7,078	16,347	
823	hexanoylcarnitine	26,931	41,797	32,801	40,053	
1288	hippurate	48,748	48,988	46,846	53,650	
50	histidine	42,787	40,189	48,047	41,588	

	DARM-00019	DARM-00020	DARM-00021	DARM-00022	
	NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1	NHSCI 1866 T1 D7	
	997740	997720	997746	997738	
	991364	991365	991366	991367	
	NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7	
	T2 D21	T2 D28	T1 D0	T1 D7	
	203.125	169.237	179.08	165.545	
PATHWAY SORT					
ORDER	BIOCHEMICAL NAME	T2 D21	T2 D28	T1 D0	T1 D7
231	homocysteine	83,562	69,119	26,772	35,380
1585	homostachydrine*	41,734	25,645	39,915	25,749
206	hydroxyisovaleroyl carnitine	403,540	361,707	321,621	371,607
1098	hypoxanthine	3,746,092	7,582,735	218,018	15,006,904
1101	inosine 5'-monophosphate (IMP)	435,611	507,463	199,428	242,285
	Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol				
527	1,4 or 1,3-diphosphate	46,635	47,458	159,838	470,896
561	Isobar: ribulose 5-phosphate, xylulose 5-phosphate	62,697	92,875	415,389	526,939
496	Isobar: sorbitol, mannitol	19,596,932	18,810,812	20,693,838	19,441,930
200	isobutyrylcarnitine	147,053	145,159	155,481	139,957
180	isoleucine	4,776,263	4,879,193	4,081,148	5,524,639
478	isomaltose	1,987,299	1,835,022	3,797,408	1,921,827
205	isovalerylcarnitine	94,873	94,547	94,705	102,380
144	kynurenine	159,947	123,647	171,047	150,418
536	lactate	1,464,920,448	1,629,336,448	410,955,296	1,221,739,776
1018	lathosterol	52,650			
625	laurate (12:0)	126,880	135,917	107,314	130,118
181	leucine	10,317,954	11,209,174	7,826,979	11,076,082

DARM-00019	DARM-00020	DARM-00021	DARM-00022
NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1	NHSCI 1866 T1 D7
997740	997720	997746	997738
991364	991365	991366	991367
NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7
T2 D21	T2 D28	T1 D0	T1 D7
203.125	169.237	179.08	165.545

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	T2 D21	T2 D28	T1 D0	T1 D7
604	linoleate (18:2n6)	3,488,389	4,216,679	1,893,378	3,325,434
608	linolenate [alpha or gamma; (18:3n3 or 6)]	585,315	797,433	463,198	632,529
69	lysine	2,735,003	2,312,196	2,787,946	2,883,800
598	malate	1,849,524	2,396,799	982,479	2,436,818
482	maltose	1,114,331	1,071,442	1,199,963	1,161,170
487	mannose	13,174,139	12,421,385	14,402,010	12,403,063
489	mannose-6-phosphate	178,214	239,605	108,630	284,746
635	margarate (17:0)	490,851	747,239	285,902	422,281
658	mead acid (20:3n9)	23,696	9,927	6,654	11,098
225	methionine	519,521	442,595	884,048	788,060
890	myo-inositol	2,382,103	1,935,200	2,619,273	2,420,938
629	myristate (14:0)	884,099	963,766	382,467	737,971
630	myristoleate (14:1n5)	31,564	38,529	17,273	26,865
1242.1	N1-Methyl-2-pyridone-5-carboxamide	225,900	140,357	207,537	107,726
75	N-6-trimethyllysine	203,543	175,609	224,147	175,826
4	N-acetylglycine	58,161	82,589	82,780	67,347
227	N-acetylmethionine	7,385	5,726	4,067	6,335
455	N-acetylneuraminate	91,039	89,395	31,680	84,752
1221	nicotinamide	2,276,759	2,900,386	2,084,399	2,805,582
1224	nicotinamide adenine dinucleotide (NAD+)	8,043	3,893	8,691	9,748
825	octanoylcarnitine	88,502	75,900	58,972	69,756
639	oleate (18:1n9)	1,009,422	828,776	907,505	910,789
835	oleoylcarnitine	1,544,235	1,489,540	313,945	2,955,699

	DARM-00019	DARM-00020	DARM-00021	DARM-00022
	NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1	NHSCI 1866 T1 D7
	997740	997720	997746	997738
	991364	991365	991366	991367
	NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7
	T2 D21	T2 D28	T1 D0	T1 D7
	203.125	169.237	179.08	165.545
	T2 D21	T2 D28	T1 D0	T1 D7
	19,017		227,185	97,437
244 ornithine	13,163,223	9,595,782	10,832,294	12,721,358
632 palmitate (16:0)	8,226,684	11,159,390	5,431,364	7,438,743
633 palmitoleate (16:1n7)	635,560	557,851	364,918	477,093
1004 palmitoyl sphingomyelin	16,440,715	15,896,092	14,012,885	16,431,550
833 palmitoylcarnitine	807,041	825,461	200,078	1,440,512
1243 pantothenate	115,021	101,784	99,612	104,805
1613 paraxanthine	514,252	471,959	438,211	501,931
88 p-cresol sulfate	48,933	42,918	40,529	45,665
621 pelargonate (9:0)	354,666	398,180	123,418	303,302
631 pentadecanoate (15:0)	245,416	308,371	174,751	229,888
135 phenol sulfate	18,254	18,729	19,500	21,576
128 phenylacetylglutamine	40,842	48,882	43,617	43,380
83 phenylalanine	9,432,172	9,297,807	7,104,701	9,035,316
602 phosphate	1,310,245,504	1,264,968,192	877,120,960	742,547,264
534 phosphoenolpyruvate (PEP)	25,115	16,771	465,258	302,786
877 phosphoethanolamine	92,849	90,439	133,297	61,514
74 pipecolate	88,160	112,236	97,249	105,482
1531 piperine	113,691	84,138	101,004	157,842
246 proline	2,234,918	2,418,336	1,905,368	2,043,748
809 propionylcarnitine	1,073,437	1,039,936	1,208,132	1,089,995
1181 pseudouridine	8,164	9,365	5,590	8,771
45 pyroglutamine*	178,501	201,908	184,215	189,017
603 pyrophosphate (PPi)	76,524	37,001	260,564	108,258

PATHWAY SORT

ORDER BIOCHEMICAL NAME

DARM-00019	DARM-00020	DARM-00021	DARM-00022
NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1	NHSCI 1866 T1 D7
997740	997720	997746	997738
991364	991365	991366	991367
NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7
T2 D21	T2 D28	T1 D0	T1 D7
203.125	169.237	179.08	165.545

PATHWAY SORT

ORDER BIOCHEMICAL NAME

T2 D21	T2 D28	T1 D0	T1 D7
535 pyruvate	1,061,162	1,217,532	112,132
1469 ranitidine			63,634
548 ribitol	229,530	235,520	179,868
557 ribose 5-phosphate	134,948	98,268	303,035
559 ribulose	19,378	36,687	24,209
224 S-adenosylhomocysteine (SAH)	210,327	256,069	119,533
551 sedoheptulose-7-phosphate	40,991	69,361	5,191
8 serine	8,690,862	8,589,556	7,383,090
216 S-methylcysteine	130,226	89,804	69,732
281 S-methylglutathione	31,276	20,929	24,198
270 spermidine	1,619,453	1,654,982	1,261,554
1584 stachydrine	3,444,752	3,618,930	3,174,276
637 stearate (18:0)	8,879,079	11,802,712	5,153,922
1005 stearoyl sphingomyelin	1,134,866	1,103,962	1,173,464
834 stearoylcarnitine	685,867	635,931	113,319
591 succinylcarnitine	602,811	669,668	508,744
1662 terephthalic acid	430,156	428,498	401,573
1614 theobromine	197,378	237,016	160,705
1615 theophylline	133,270	118,079	74,393
549 threitol	968,914	957,934	834,558
1199 threonate	567,150	551,803	506,499
17 threonine	238,672	233,172	205,602
252 trans-4-hydroxyproline	32,518	25,701	19,313

DARM-00019	DARM-00020	DARM-00021	DARM-00022
NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1	NHSCI 1866 T1 D7
	997740	997720	997746
	991364	991365	991366
NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7
T2 D21	T2 D28	T1 D0	T1 D7
	203.125	169.237	179.08
T2 D21	T2 D28	T1 D0	T1 D7

PATHWAY SORT

ORDER BIOCHEMICAL NAME

501 trehalose	1,325,007	1,042,991	190,060	462,741
1242 trigonelline (N ¹ -methylnicotinate)	501,302	462,348	484,522	505,470
145 tryptophan	4,679,503	4,174,408	3,589,194	4,354,362
151 tryptophan betaine	4,354,753	4,427,971	3,840,391	4,271,965
99 tyrosine	3,029,753	2,886,537	2,522,695	2,872,657
1149 urate	166,881	174,699	187,677	178,192
245 urea	27,915,962	27,365,086	24,941,684	27,766,150
1180 uridine	39,013	46,772	27,367	43,315
190 valine	10,775,019	10,639,117	9,167,983	10,653,256
565 xylitol	19,881			279,174
570 xylonate	75,060	59,895	49,776	82,130
569 xylose		149,690	86,756	123,024

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00023	DARM-00024	DARM-00025	DARM-00026
		NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 CONTROL
		997739	997737	997732	997735
		991368	991369	991370	991371
		NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 C D0
		T1 D14	T1 D21	T1 D28	C D0
		173.574	171.422	155.949	177.522
		T1 D14	T1 D21	T1 D28	C D0
905	1,2-propanediol	9,222,896	11,653,529	16,395,251	5,359,018
532	1,3-dihydroxyacetone	79,639	75,059	66,607	71,270
515	1,5-anhydroglucitol (1,5-AG)	6,016,202	8,553,883	6,683,827	7,625,753
523	1,6-anhydroglucose	511,979	293,938	390,658	422,889
636	10-heptadecenoate (17:1n7)	87,318	106,381	101,766	68,349
742	13-methylmyristic acid	132,142	143,027	170,341	76,519
744	15-methylpalmitate (isobar with 2-methylpalmitate)	213,039	263,284	309,137	125,661
919	1-arachidonoylglycerophosphoethanolamine*	20,053	20,043	19,307	35,154
938	1-linoleoylglycerophosphocholine	244,569	246,194	237,103	247,500
926	1-myristoylglycerophosphocholine	102,061	198,228	59,542	
936	1-oleoylglycerophosphocholine	1,587,265	3,673,508	779,136	38,365
915	1-oleoylglycerophosphoethanolamine	17,824	10,839	23,412	26,206
970	1-palmitoylglycerol (1-monopalmitin)	44,045	41,357	28,608	27,195
929	1-palmitoylglycerophosphocholine	7,190,304	13,289,885	4,358,269	125,397
909	1-palmitoylglycerophosphoethanolamine	11,739	17,475	9,695	18,804
934	1-stearoylglycerophosphocholine	2,980,702	6,212,239	1,742,057	48,748
533	2,3-diphosphoglycerate	333,988	130,003	25,572	314,605
263	2-aminobutyrate	2,537,859	2,450,284	2,724,597	2,469,166
945	2-arachidonoylglycerophosphocholine*	404,946	742,997	153,659	
920	2-arachidonoylglycerophosphoethanolamine*	3,413,996	5,115,768	1,716,124	88,717
923	2-docosahexaenoylglycerophosphoethanolamine*	828,081	1,285,999	352,568	41,806
922	2-docosapentaenoylglycerophosphoethanolamine*	919,153	1,583,575	432,783	
1360	2-ethylhexanoate (isobar with 2-propylpentanoate)	19,731	22,683	18,451	30,919
229	2-hydroxybutyrate (AHB)	1,690,633	1,630,246	1,556,682	1,588,466
714	2-hydroxyglutarate	296,627	318,966	354,627	105,231
706	2-hydroxypalmitate	47,416	56,921	57,935	36,965
939	2-linoleoylglycerophosphocholine*	676,049	1,129,196	409,232	

DARM-00023	DARM-00024	DARM-00025	DARM-00026
NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 CONTROL
997739	997737	997732	997735
991368	991369	991370	991371
NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 C D0
T1 D14	T1 D21	T1 D28	C D0
173.574	171.422	155.949	177.522

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	T1 D14	T1 D21	T1 D28	C D0
202	2-methylbutyrylcarnitine	40,669	47,016	51,127	74,990
937	2-oleoylglycerophosphocholine*	337,856	708,052	164,772	
930	2-palmitoylglycerophosphocholine*	639,670	1,237,807	330,006	34,141
935	2-stearoylglycerophosphocholine*	164,754	385,602	113,450	
821	3-dehydrocarnitine*	1,019,193	932,404	1,018,342	940,934
170	3-indoxyl sulfate	3,053	4,915	3,975	4,098
172	3-methyl-2-oxobutyrate	6,240	8,786		56,751
173	3-methyl-2-oxovalerate	17,025	16,565	22,984	53,631
529	3-phosphoglycerate	1,478,279	598,853	542,490	1,123,098
193	4-methyl-2-oxopentanoate	24,801	30,725	41,940	113,635
266	5-methylthioadenosine (MTA)	140,884	117,209	109,639	47,611
282	5-oxoproline	350,384	385,959	418,018	55,881
545	6-phosphogluconate	80,351	33,268	31,567	115,280
1024	7-beta-hydroxycholesterol	28,826	19,054	22,345	19,557
712.5	9,10-epoxyoctadec-12(Z)-enoic acid	152,463	157,052	213,245	13,769
672	9,10-epoxystearate	8,368,615	8,289,198	11,156,853	400,963
822	acetylcarnitine	3,473,271	3,330,010	3,275,070	4,034,797
601	acetylphosphate	3,284,806	3,234,368	3,255,410	2,935,023
1105	adenine	33,155,058	25,601,084	16,469,920	42,802,920
1106	adenosine	35,262	30,706	31,773	37,023
1116	adenosine 5'-diphosphate (ADP)	134,937	95,612	94,216	218,446
1232	adenosine 5'diphosphoribose	102,409	82,110	68,008	94,292
1114	adenosine 5'-monophosphate (AMP)	2,832,129	3,536,550	5,477,438	3,445,505
665	adrenate (22:4n6)	68,604	106,317	109,502	35,631

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00023	DARM-00024	DARM-00025	DARM-00026
		NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 CONTROL
		997739	997737	997732	997735
		991368	991369	991370	991371
		NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 C D0
		T1 D14	T1 D21	T1 D28	C D0
		173.574	171.422	155.949	177.522
		T1 D14	T1 D21	T1 D28	C D0
	27 alanine	50,100,840	51,392,724	60,260,428	56,876,548
	1150 allantoin	9,816	25,160	28,017	46,315
	179 alpha-hydroxyisocaproate	429,098	315,064	410,059	
	198 alpha-hydroxyisovalerate	1,381,199	1,310,523	1,658,694	288,261
	1266 alpha-tocopherol	121,546	109,708	171,439	174,305
	1034 androsterone sulfate	4,983	6,402	7,721	5,431
	566 arabinose	296,164	346,448	386,519	297,138
	546 arabitol	866,851	800,143	957,866	585,899
	1202 arabonate	80,462	73,555	76,541	67,569
	659 arachidonate (20:4n6)	697,589	1,008,060	1,476,199	695,282
	241 arginine	988,248	1,240,274	1,372,072	530,412
	25 asparagine	1,323,333	1,203,043	1,392,988	1,406,645
	24 aspartate	4,816,711	4,305,496	3,695,279	3,381,338
	721 azelate (nonanedioate)	24,727	32,976	48,723	4,398
	26 beta-alanine	147,916	116,475	167,238	151,480
	7 beta-hydroxypyruvate	260,419	192,934	265,273	303,406
	22 betaine	1,720,901	1,677,453	1,717,075	1,639,042
	1057 beta-sitosterol	57,786	49,832	45,102	30,940
	1216 biliverdin	73,846	121,908	32,588	19,615

DARM-00023	DARM-00024	DARM-00025	DARM-00026
NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 CONTROL
997739	997737	997732	997735
991368	991369	991370	991371
NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 C D0
T1 D14	T1 D21	T1 D28	C D0
173.574	171.422	155.949	177.522

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	T1 D14	T1 D21	T1 D28	C D0
811	butyrylcarnitine	9,986	25,941	12,620	16,262
1612	caffeine	3,204,983	3,235,623	3,163,755	3,387,228
1059	campesterol	207,988	410,371	375,275	240,252
622	caprate (10:0)	27,899	19,115	25,526	15,349
618	caproate (6:0)	21,964	22,321	20,907	43,003
620	caprylate (8:0)	19,582	37,463	24,080	27,589
820	carnitine	1,068,483	1,025,964	1,009,222	938,032
1300	catechol sulfate	77,652	76,520	75,564	79,676
164	C-glycosyltryptophan*	31,863	33,420	27,721	31,840
1020	cholesterol	34,291,188	32,623,754	36,720,168	35,122,852
881	choline	2,249,203	2,107,602	2,141,094	2,123,580
582	cis-aconitate	914,380	926,615	922,791	622,362
641	cis-vaccenate (18:1n7)	105,201	216,159	363,117	227,686
579	citrate	198,625,488	145,882,720	120,670,864	295,909,920
248	citrulline	114,735	112,684	119,573	100,053
259	creatine	3,761,597	3,710,686	3,729,844	3,638,218
260	creatinine	434,766	401,605	448,956	412,470
213	cysteine	649,481	956,357	1,064,491	468,283
819	deoxycarnitine	583,392	556,648	589,514	569,406
655	dihomo-linoleate (20:2n6)	75,468	80,418	93,527	45,828
609	dihomo-linolenate (20:3n3 or n6)	71,432	88,102	117,655	69,155
531	dihydroxyacetone phosphate (DHAP)	711,366			33,072
3	dimethylglycine	296,146	181,282	349,965	364,534
613	docosahexaenoate (DHA; 22:6n3)	146,753	184,351	231,315	118,229
611	docosapentaenoate (n3 DPA; 22:5n3)	82,788	103,119	131,731	49,019
610	eicosapentaenoate (EPA; 20:5n3)	178,067	200,501	213,780	156,298
1565	ergothioneine	787,115	784,154	822,103	898,558
735	erucamide	260,022	265,707		570,717
1632	erythritol	2,037,034	2,614,540	3,672,486	837,725
453	erythronate*	955,566	1,345,808	1,403,580	389,326

		DARM-00023	DARM-00024	DARM-00025	DARM-00026
		NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 CONTROL
		997739	997737	997732	997735
		991368	991369	991370	991371
PATHWAY SORT		NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 C D0
ORDER	BIOCHEMICAL NAME	T1 D14	T1 D21	T1 D28	C D0
876	ethanolamine	173,574	171,422	155,949	177,522
		T1 D14	T1 D21	T1 D28	C D0
		616,450	513,979	740,718	449,686
472	fructose	48,251,748	73,835,424	99,218,608	62,642,476
524	fructose-6-phosphate	601,632	269,948	398,915	553,908
594	fumarate	617,688	639,637	604,120	415,915
404	gamma-glutamylleucine	26,263	27,469		24,169
521	glucose	947,113,472	896,353,088	993,111,232	1,118,494,208
519	glucose-6-phosphate (G6P)	1,117,890	1,420,377	1,316,496	1,412,532
39	glutamate	6,378,748	5,257,395	6,198,704	6,831,711
44	glutamine	1,097,059	959,056	880,151	1,941,536
80	glutaroyl carnitine	12,938	13,182	11,913	17,870
283	glutathione, oxidized (GSSG)	986,813	779,092	691,372	1,474,703
280	glutathione, reduced (GSH)	22,980,926	21,671,654	19,504,774	26,064,682
517	glycerate	4,681,174	5,326,287	6,292,381	249,083
882	glycerol 3-phosphate (G3P)	564,928	252,624	273,805	395,807
883	glycerophosphorylcholine (GPC)	160,595	156,805	166,682	171,745
1	glycine	34,244,468	39,616,372	53,382,244	27,236,388
851	glycochenodeoxycholate	99,498	89,799	94,180	120,061
840	glycocholate	50,337	48,685	56,512	58,620
849	glycodeoxycholate	44,255	34,620	41,816	32,563
1318	glycolate (hydroxyacetate)	371,105	340,540	409,050	393,353
1128	guanosine	32,032	32,000	19,652	25,082
1212	heme*	5,497,433	10,833,596	1,124,794	187,384
619	heptanoate (7:0)	6,033	7,009	7,562	9,017
823	hexanoylcarnitine	25,003	30,915	26,561	61,494
1288	hippurate	52,463	50,955	50,157	48,853
50	histidine	41,985	54,803	44,890	37,045

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00023	DARM-00024	DARM-00025	DARM-00026
		NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 CONTROL
		997739	997737	997732	997735
		991368	991369	991370	991371
		NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 C D0
		T1 D14	T1 D21	T1 D28	C D0
		173.574	171.422	155.949	177.522
		T1 D14	T1 D21	T1 D28	C D0
	231 homocysteine	102,438	92,077	125,847	25,998
	1585 homostachydrine*	31,065	34,000	36,082	41,178
	206 hydroxyisovaleroyl carnitine	348,729	335,775	343,590	361,571
	1098 hypoxanthine	13,937,754	12,358,769	14,866,583	279,881
	1101 inosine 5'-monophosphate (IMP)	405,409	605,083	679,813	134,957
	Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol				
	527 1,4 or 1,3-diphosphate	79,205	30,139	25,676	53,309
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate	261,361	42,323	43,696	81,386
	496 Isobar: sorbitol, mannitol	20,631,362	19,962,346	16,509,542	17,943,808
	200 isobutyrylcarnitine	135,366	132,992	130,810	143,152
	180 isoleucine	5,791,709	5,323,534	5,687,231	4,385,777
	478 isomaltose	1,489,502	1,627,792	2,074,130	1,946,129
	205 isovalerylcarnitine	98,113	90,526	96,377	107,873
	144 kynurenine	147,800	127,429	112,213	138,889
	536 lactate	1,643,635,584	1,936,001,408	2,385,103,360	283,727,616
	1018 lathosterol	46,234	52,225		
	625 laurate (12:0)	139,308	110,852	109,737	108,254
	181 leucine	11,146,261	10,841,503	11,718,432	9,206,251

	DARM-00023	DARM-00024	DARM-00025	DARM-00026	
	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 CONTROL	
	997739	997737	997732	997735	
	991368	991369	991370	991371	
	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 C D0	
	T1 D14	T1 D21	T1 D28	C D0	
	173.574	171.422	155.949	177.522	
PATHWAY SORT	T1 D14	T1 D21	T1 D28	C D0	
ORDER	BIOCHEMICAL NAME				
	604 linoleate (18:2n6)	3,454,248	4,061,245	4,524,522	2,696,804
	608 linolenate [alpha or gamma; (18:3n3 or 6)]	562,984	707,330	698,064	570,880
	69 lysine	2,899,100	2,479,688	3,217,801	2,485,539
	598 malate	2,705,658	2,812,607	2,370,052	1,111,300
	482 maltose	1,068,441	1,122,334	1,304,029	1,355,155
	487 mannose	11,294,361	11,001,329	11,860,068	14,083,007
	489 mannose-6-phosphate	276,375	240,282	255,265	219,228
	635 margarate (17:0)	399,697	472,678	520,903	294,869
	658 mead acid (20:3n9)	16,461	14,273	18,625	20,403
	225 methionine	641,689	481,944	453,751	881,990
	890 myo-inositol	1,999,987	1,791,128	2,181,631	2,326,825
	629 myristate (14:0)	671,065	690,413	788,174	401,086
	630 myristoleate (14:1n5)	37,469			48,279
1242.1	N1-Methyl-2-pyridone-5-carboxamide	104,601	139,784	161,098	112,680
75	N-6-trimethyllysine	164,703	182,702	171,199	180,387
4	N-acetylglycine	69,833		85,540	80,848
227	N-acetylmethionine	3,741	5,469	5,033	5,502
455	N-acetylneuraminate	60,076	115,440	144,073	30,853
1221	nicotinamide	2,466,889	2,901,258	2,575,339	2,649,055
1224	nicotinamide adenine dinucleotide (NAD+)	3,127	2,604	2,771	3,624
825	octanoylcarnitine	76,524	85,048	64,582	74,458
639	oleate (18:1n9)	873,971	917,018	996,987	597,759
835	oleoylcarnitine	3,057,726	7,241,210	1,733,185	39,832

	DARM-00023	DARM-00024	DARM-00025	DARM-00026
	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 CONTROL
	997739	997737	997732	997735
	991368	991369	991370	991371
	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 C D0
T1 D14	T1 D21	T1 D28	C D0	
	173.574	171.422	155.949	177.522
T1 D14	T1 D21	T1 D28	C D0	
	52,223	23,753		204,163
244 ornithine	12,768,683	10,862,977	12,987,170	11,518,017
632 palmitate (16:0)	7,773,711	8,460,192	9,093,167	6,094,743
633 palmitoleate (16:1n7)	594,583	511,705	554,747	472,426
1004 palmitoyl sphingomyelin	15,122,169	13,045,416	15,386,679	15,587,769
833 palmitoylcarnitine	1,413,824	3,149,368	859,247	
1243 pantothenate	103,143	88,135	94,692	91,492
1613 paraxanthine	501,549	447,541	491,750	489,402
88 p-cresol sulfate	39,727	40,431	41,708	46,335
621 pelargonate (9:0)	191,865	173,659	218,977	107,227
631 pentadecanoate (15:0)	214,252	261,516	282,267	161,375
135 phenol sulfate	18,658	17,398	19,028	20,850
128 phenylacetylglutamine	39,670	43,365	36,500	36,932
83 phenylalanine	9,345,391	8,765,870	9,414,596	7,616,771
602 phosphate	675,251,968	845,790,656	1,104,383,744	1,071,254,272
534 phosphoenolpyruvate (PEP)	209,038	70,826	27,817	263,933
877 phosphoethanolamine	89,288	67,771	50,592	
74 pipecolate	97,968	103,222	91,430	92,603
1531 piperine	119,521	138,843	81,002	126,860
246 proline	2,112,336	2,086,547	2,257,323	2,024,499
809 propionylcarnitine	933,796	841,561	812,781	1,267,591
1181 pseudouridine	10,952	7,553	9,629	10,650
45 pyroglutamine*	204,814	172,022	163,727	146,838
603 pyrophosphate (PPi)	95,057	58,494	61,654	114,575

PATHWAY SORT

ORDER BIOCHEMICAL NAME

	DARM-00023	DARM-00024	DARM-00025	DARM-00026	
	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 CONTROL	
	997739	997737	997732	997735	
	991368	991369	991370	991371	
	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 C D0	
	T1 D14	T1 D21	T1 D28	C D0	
	173.574	171.422	155.949	177.522	
PATHWAY SORT	T1 D14	T1 D21	T1 D28	C D0	
ORDER	BIOCHEMICAL NAME				
535	pyruvate	181,161	3,408,564	7,034,338	3,892,667
1469	ranitidine				
548	ribitol	1,410,089	1,256,211	1,640,570	170,112
557	ribose 5-phosphate	242,187	85,959	71,897	101,950
559	ribulose	111,852	32,986	54,531	
224	S-adenosylhomocysteine (SAH)	229,461	169,683	232,285	134,742
551	sedoheptulose-7-phosphate		34,028	86,705	52,333
8	serine	8,534,447	8,305,055	9,531,856	7,174,827
216	S-methylcysteine	58,931	71,970	82,448	58,170
281	S-methylglutathione	44,493	28,444	21,097	25,339
270	spermidine	1,420,840	1,392,796	1,501,036	1,423,610
1584	stachydrine	3,378,943	3,452,362	3,444,646	3,534,442
637	stearate (18:0)	7,597,692	8,274,300	9,011,432	5,454,827
1005	stearoyl sphingomyelin	1,127,528	1,100,591	1,194,281	1,087,408
834	stearoylcarnitine	993,279	2,405,598	560,078	
591	succinylcarnitine	598,940	620,805	693,106	531,937
1662	terephthalic acid	353,476	376,418	333,558	425,030
1614	theobromine	159,734	187,818	233,955	166,447
1615	theophylline	90,363	47,447	112,746	144,988
549	threitol	1,163,937	1,112,152	1,222,698	659,998
1199	threonate	542,629	553,646	619,076	503,317
17	threonine	234,652	220,304	262,908	187,534
252	trans-4-hydroxyproline	30,124	24,840	22,725	22,861

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00023	DARM-00024	DARM-00025	DARM-00026
		NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 CONTROL
		997739	997737	997732	997735
		991368	991369	991370	991371
		NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	NHSCI 1866 T1 D28	NHSCI 1866 C D0
		T1 D14	T1 D21	T1 D28	C D0
		173.574	171.422	155.949	177.522
		T1 D14	T1 D21	T1 D28	C D0
	501 trehalose	630,175	939,834	1,063,138	159,979
	1242 trigonelline (N ¹ -methylnicotinate)	495,616	479,519	479,042	508,849
	145 tryptophan	4,375,374	4,166,448	4,322,376	4,000,641
	151 tryptophan betaine	4,143,583	4,125,602	4,432,113	4,396,314
	99 tyrosine	2,919,663	2,787,029	2,726,773	2,677,883
	1149 urate	147,324	149,184	138,873	206,944
	245 urea	24,829,290	24,798,716	28,481,742	27,163,684
	1180 uridine	40,633	36,538	42,784	25,665
	190 valine	10,208,828	10,230,705	10,366,040	9,614,625
	565 xylitol	290,929	161,397	92,652	
	570 xylonate	93,594	107,315	66,169	56,895
	569 xylose	310,196	365,001	468,016	137,822

DARM-00027	DARM-00028	DARM-00029	DARM-00030
NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D51
997723	997728	997722	997744
991372	991373	991374	991375
NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D28
C D7	C D14	C D21	C D28
181.946	180.175	185.286	186.197

PATHWAY SORT

ORDER BIOCHEMICAL NAME

C D7	C D14	C D21	C D28
7,541,707	11,474,456	10,838,376	13,819,999
62,248	81,743	59,754	91,977
5,766,874	6,650,703	6,459,022	6,144,440
297,838	302,773	259,616	338,037
88,236	87,893	108,649	80,277
132,301	146,198	137,503	130,180
225,093	224,138	335,268	247,699
34,056	27,537	29,738	22,073
324,502	263,673	323,220	217,008
30,883	67,891	51,273	248,555
147,482	464,838	754,374	2,874,057
21,281	15,809	25,668	16,655
33,967	52,041	40,849	48,834
934,112	2,595,194	4,493,467	10,554,460
19,991	20,085	15,198	12,864
333,108	990,782	1,407,856	6,352,232
114,587	21,834	4,300	4,070
2,332,484	2,724,088	2,244,825	2,475,433
54,086	117,454	158,278	724,160
420,211	1,181,052	1,627,422	4,628,157
166,924	357,590	337,392	1,231,888
128,120	386,344	441,543	1,306,412
37,268	35,103	20,464	21,554
1,598,860	1,717,726	1,384,226	1,725,043
97,025	148,145	169,055	237,560
51,366	43,684	57,502	41,992
206,348	268,697	400,028	1,322,133

905 1,2-propanediol	7,541,707	11,474,456	10,838,376	13,819,999
532 1,3-dihydroxyacetone	62,248	81,743	59,754	91,977
515 1,5-anhydroglucitol (1,5-AG)	5,766,874	6,650,703	6,459,022	6,144,440
523 1,6-anhydroglucose	297,838	302,773	259,616	338,037
636 10-heptadecenoate (17:1n7)	88,236	87,893	108,649	80,277
742 13-methylmyristic acid	132,301	146,198	137,503	130,180
744 15-methylpalmitate (isobar with 2-methylpalmitate)	225,093	224,138	335,268	247,699
919 1-arachidonoylglycerophosphoethanolamine*	34,056	27,537	29,738	22,073
938 1-linoleoylglycerophosphocholine	324,502	263,673	323,220	217,008
926 1-myristoylglycerophosphocholine	30,883	67,891	51,273	248,555
936 1-oleoylglycerophosphocholine	147,482	464,838	754,374	2,874,057
915 1-oleoylglycerophosphoethanolamine	21,281	15,809	25,668	16,655
970 1-palmitoylglycerol (1-monopalmitin)	33,967	52,041	40,849	48,834
929 1-palmitoylglycerophosphocholine	934,112	2,595,194	4,493,467	10,554,460
909 1-palmitoylglycerophosphoethanolamine	19,991	20,085	15,198	12,864
934 1-stearoylglycerophosphocholine	333,108	990,782	1,407,856	6,352,232
533 2,3-diphosphoglycerate	114,587	21,834	4,300	4,070
263 2-aminobutyrate	2,332,484	2,724,088	2,244,825	2,475,433
945 2-arachidonoylglycerophosphocholine*	54,086	117,454	158,278	724,160
920 2-arachidonoylglycerophosphoethanolamine*	420,211	1,181,052	1,627,422	4,628,157
923 2-docosahexaenoylglycerophosphoethanolamine*	166,924	357,590	337,392	1,231,888
922 2-docosapentaenoylglycerophosphoethanolamine*	128,120	386,344	441,543	1,306,412
1360 2-ethylhexanoate (isobar with 2-propylpentanoate)	37,268	35,103	20,464	21,554
229 2-hydroxybutyrate (AHB)	1,598,860	1,717,726	1,384,226	1,725,043
714 2-hydroxyglutarate	97,025	148,145	169,055	237,560
706 2-hydroxypalmitate	51,366	43,684	57,502	41,992
939 2-linoleoylglycerophosphocholine*	206,348	268,697	400,028	1,322,133

DARM-00027	DARM-00028	DARM-00029	DARM-00030
NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D51
997723	997728	997722	997744
991372	991373	991374	991375
NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D28
C D7	C D14	C D21	C D28
181.946	180.175	185.286	186.197

PATHWAY SORT

ORDER

BIOCHEMICAL NAME

C D7	C D14	C D21	C D28
76,855	61,196	87,420	43,965
66,600	128,114	161,528	651,263
111,258	257,942	316,727	1,425,490
	61,539	72,930	470,915
1,067,343	1,042,639	1,044,675	1,045,926
4,277	3,665	2,759	5,125
53,364	51,377	38,252	34,658
55,305	63,694	59,705	51,366
862,740	781,792	434,652	392,112
118,641	128,891	99,049	85,243
71,125	111,907	98,027	108,532
183,518	295,056	370,626	439,621
59,949			
21,900	34,141	30,496	14,146
98,325	124,208	180,865	188,284
5,387,020	6,655,581	9,202,128	8,887,839
3,972,325	3,750,447	3,889,831	3,619,613
3,052,876	3,555,621	2,839,613	3,265,498
36,307,960	26,311,536	23,192,424	21,060,490
24,392	24,654	44,702	23,869
231,523	201,800	163,767	116,207
100,886	89,094	90,954	73,759
4,575,457	5,406,040	6,401,236	5,820,486
74,564	66,291	79,886	94,859

202 2-methylbutyrylcarnitine
937 2-oleoylglycerophosphocholine*
930 2-palmitoylglycerophosphocholine*
935 2-stearoylglycerophosphocholine*
821 3-dehydrocarnitine*
170 3-indoxyl sulfate

172 3-methyl-2-oxobutyrate

173 3-methyl-2-oxovalerate

529 3-phosphoglycerate

193 4-methyl-2-oxopentanoate
266 5-methylthioadenosine (MTA)
282 5-oxoproline

545 6-phosphogluconate
1024 7-beta-hydroxycholesterol
712.5 9,10-epoxyoctadec-12(Z)-enoic acid
672 9,10-epoxystearate
822 acetylcarnitine
601 acetylphosphate

1105 adenine

1106 adenosine

1116 adenosine 5'-diphosphate (ADP)

1232 adenosine 5'diphosphoribose

1114 adenosine 5'-monophosphate (AMP)
665 adenate (22:4n6)

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00027	DARM-00028	DARM-00029	DARM-00030
		NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D51
		997723	997728	997722	997744
		991372	991373	991374	991375
		NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D28
		C D7	C D14	C D21	C D28
		181.946	180.175	185.286	186.197
		C D7	C D14	C D21	C D28
	27 alanine	59,010,100	70,591,808	57,490,560	64,239,864
	1150 allantoin	23,605		15,289	23,737
	179 alpha-hydroxyisocaproate		133,295	223,270	320,248
	198 alpha-hydroxyisovalerate	280,019	397,562	500,789	635,087
	1266 alpha-tocopherol	136,646	191,922	114,256	130,652
	1034 androsterone sulfate	8,112	7,077	6,701	9,389
	566 arabinose	361,155	351,108	282,015	276,692
	546 arabitol	477,814	510,724	462,336	631,655
	1202 arabonate	109,597	103,372	72,624	110,717
	659 arachidonate (20:4n6)	823,763	838,584	1,176,509	944,103
	241 arginine	1,242,925	1,631,118	1,454,897	549,452
	25 asparagine	1,254,520	1,397,682	1,004,096	1,295,981
	24 aspartate	2,459,311	3,225,898	3,106,433	3,999,182
	721 azelate (nonanedioate)	14,007	24,954	36,298	42,424
	26 beta-alanine	77,848	84,345	74,068	184,491
	7 beta-hydroxypyruvate	251,874	337,569	154,928	239,218
	22 betaine	1,626,279	1,728,294	1,672,991	1,688,387
	1057 beta-sitosterol	50,513	58,349	40,491	35,062
	1216 biliverdin	26,329	18,371	36,174	52,215

DARM-00027	DARM-00028	DARM-00029	DARM-00030
NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D51
997723	997728	997722	997744
991372	991373	991374	991375
NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D28
C D7	C D14	C D21	C D28
181.946	180.175	185.286	186.197

PATHWAY SORT

ORDER BIOCHEMICAL NAME

C D7	C D14	C D21	C D28
25,466		18,848	19,521
3,417,860	3,098,230	3,143,026	3,179,570
169,601	343,638	332,088	252,559
22,388	32,120	25,005	22,274
44,492	30,729	28,846	26,717
32,838	47,004	34,072	29,931
886,367	989,525	907,057	1,017,687
82,344	76,843	80,589	75,807
34,204	32,858	32,617	33,572
33,314,874	40,148,852	30,020,408	34,903,636
2,131,830	2,210,468	2,180,703	2,098,193
791,270	840,415	873,276	778,737
203,724	188,204	194,304	256,726
239,197,344	233,029,664	175,058,144	150,407,968
97,201	115,885	106,913	116,739
3,795,108	3,682,630	3,742,688	3,720,130
298,824	329,233	412,330	413,987
661,165	1,171,320	993,262	1,329,492
591,736	576,227	567,295	549,537
79,059	67,573	99,750	69,913
76,597	81,738	104,133	67,178
34,163			23,090
463,672	353,777	314,053	438,720
167,778	160,543	234,436	154,398
91,538	88,988	135,122	107,994
150,263	160,535	198,839	196,233
873,930	828,627	858,040	776,286
246,738	386,464		490,737
937,482	1,422,206	1,287,599	1,576,778
399,630	469,898	481,616	656,974

PATHWAY SORT		DARM-00027	DARM-00028	DARM-00029	DARM-00030
ORDER	BIOCHEMICAL NAME	NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D51
		997723	997728	997722	997744
		991372	991373	991374	991375
		NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D28
		C D7	C D14	C D21	C D28
		181.946	180.175	185.286	186.197
		C D7	C D14	C D21	C D28
	876 ethanolamine	325,509	451,993	363,962	959,334
	472 fructose	68,505,920	81,753,176	71,085,720	84,452,280
	524 fructose-6-phosphate	553,045	646,289	506,948	475,395
	594 fumarate	522,600	574,550	537,816	501,266
	404 gamma-glutamylleucine	21,952	16,951	24,416	18,848
	521 glucose	1,039,883,456	1,089,999,360	951,012,160	997,553,728
	519 glucose-6-phosphate (G6P)	1,502,941	1,664,616	1,464,321	1,516,292
	39 glutamate	6,284,719	7,018,903	5,429,270	6,033,070
	44 glutamine	1,723,548	1,384,945	1,212,226	1,184,348
	80 glutaroyl carnitine	15,353	17,731	17,376	22,019
	283 glutathione, oxidized (GSSG)	1,270,879	1,020,500	926,367	1,200,988
	280 glutathione, reduced (GSH)	18,079,298	24,764,038	21,248,432	20,547,928
	517 glycerate	499,548	620,731	732,564	908,512
	882 glycerol 3-phosphate (G3P)	355,687	348,275	286,390	202,625
	883 glycerophosphorylcholine (GPC)	148,260	168,340	157,523	160,346
	1 glycine	33,644,972	49,065,748	46,324,516	51,901,188
	851 glycochenodeoxycholate	103,526	99,755	93,377	78,893
	840 glycocholate	60,575	49,236	52,828	44,676
	849 glycodeoxycholate	26,398	41,886	34,653	42,344
	1318 glycolate (hydroxyacetate)	379,420	463,703	355,768	433,516
	1128 guanosine	26,356	27,701	25,858	24,958
	1212 heme*	636,851	1,905,266	2,001,279	9,562,559
	619 heptanoate (7:0)	10,281	8,621	9,196	10,045
	823 hexanoylcarnitine	43,338	26,171	31,616	32,959
	1288 hippurate	58,894	51,578	48,359	50,721
	50 histidine	44,508	45,454	41,544	39,166

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00027	DARM-00028	DARM-00029	DARM-00030
		NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D51
		997723	997728	997722	997744
		991372	991373	991374	991375
		NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D28
		C D7	C D14	C D21	C D28
		181.946	180.175	185.286	186.197
		C D7	C D14	C D21	C D28
	231 homocysteine	32,666	87,447	73,188	79,757
	1585 homostachydrine*	27,786	36,490	27,568	32,484
	206 hydroxyisovaleroyl carnitine	396,962	366,801	364,054	354,559
	1098 hypoxanthine	237,200	785,728	2,546,911	6,082,068
	1101 inosine 5'-monophosphate (IMP)	328,889	582,387	331,913	339,770
	Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol				
	527 1,4 or 1,3-diphosphate	55,048	50,627	53,103	35,784
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate	77,308	85,729	55,929	65,253
	496 Isobar: sorbitol, mannitol	18,733,526	17,814,282	18,544,120	18,990,472
	200 isobutyrylcarnitine	163,111	137,186	138,537	130,574
	180 isoleucine	4,663,533	4,409,751	4,377,872	4,644,256
	478 isomaltose	1,872,634	1,872,018	1,507,209	1,745,698
	205 isovalerylcarnitine	101,548	111,929	113,812	89,564
	144 kynurenine	136,839	121,669	158,329	128,163
	536 lactate	743,800,768	1,301,145,344	1,372,414,208	1,640,015,488
	1018 lathosterol	38,989	49,485		
	625 laurate (12:0)	127,706	142,753	143,001	121,349
	181 leucine	9,521,423	9,576,510	9,373,946	10,474,238

DARM-00027	DARM-00028	DARM-00029	DARM-00030
NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D51
997723	997728	997722	997744
991372	991373	991374	991375
NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D28
C D7	C D14	C D21	C D28
181.946	180.175	185.286	186.197

PATHWAY SORT

ORDER	BIOCHEMICAL NAME	C D7	C D14	C D21	C D28
604	linoleate (18:2n6)	3,532,413	3,434,276	4,306,622	3,115,737
608	linolenate [alpha or gamma; (18:3n3 or 6)]	544,045	655,342	676,656	560,640
69	lysine	1,985,777	2,449,953	1,618,185	3,332,711
598	malate	1,507,907	1,988,038	1,840,882	2,524,373
482	maltose	1,153,248	1,375,508	1,119,766	1,049,543
487	mannose	13,239,841	14,826,829	11,488,961	12,203,624
489	mannose-6-phosphate	199,106	251,148	233,714	264,289
635	margarate (17:0)	482,030	431,418	579,953	416,367
658	mead acid (20:3n9)	12,961	19,272	12,276	7,756
225	methionine	864,860	610,165	444,437	406,243
890	myo-inositol	1,971,318	2,201,784	1,795,906	1,954,884
629	myristate (14:0)	666,258	740,326	902,147	709,081
630	myristoleate (14:1n5)	19,377	28,689	32,995	24,186
1242.1	N1-Methyl-2-pyridone-5-carboxamide	169,135	171,621	76,472	147,074
75	N-6-trimethyllysine	274,891	182,982	223,191	178,198
4	N-acetylglycine	67,489	65,786	100,518	101,630
227	N-acetylmethionine	4,576	5,901	4,937	5,013
455	N-acetylneuraminat	39,246	97,244	91,567	81,988
1221	nicotinamide	2,519,914	2,606,459	2,753,504	2,514,949
1224	nicotinamide adenine dinucleotide (NAD+)	3,656	3,817	3,607	7,409
825	octanoylcarnitine	66,818	69,316	73,599	73,250
639	oleate (18:1n9)	675,705	773,779	737,139	824,894
835	oleoylcarnitine	296,722	839,169	1,173,849	6,755,525

	DARM-00027	DARM-00028	DARM-00029	DARM-00030
	NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D51
	997723	997728	997722	997744
	991372	991373	991374	991375
	NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D28
	C D7	C D14	C D21	C D28
	181.946	180.175	185.286	186.197
	C D7	C D14	C D21	C D28
	50,721	28,414		
244 ornithine	10,093,262	10,921,280	8,529,724	13,036,086
632 palmitate (16:0)	8,209,507	8,075,588	9,564,448	7,921,516
633 palmitoleate (16:1n7)	580,007	421,599	525,917	372,048
1004 palmitoyl sphingomyelin	14,827,738	16,726,182	12,126,371	14,610,131
833 palmitoylcarnitine	261,552	452,163	563,927	4,437,191
1243 pantothenate	95,089	94,199	147,169	99,677
1613 paraxanthine	443,009	461,396	465,535	461,229
88 p-cresol sulfate	47,429	44,307	44,968	42,116
621 pelargonate (9:0)	213,751	232,404	230,384	187,391
631 pentadecanoate (15:0)	237,729	249,538	320,664	238,384
135 phenol sulfate	17,688	21,920	20,488	16,515
128 phenylacetylglutamine	41,655	42,652	42,530	44,447
83 phenylalanine	8,497,740	8,430,026	8,708,808	9,319,272
602 phosphate	1,101,179,264	1,367,314,816	1,115,626,624	1,211,363,840
534 phosphoenolpyruvate (PEP)	116,097	66,183	21,439	
877 phosphoethanolamine				50,346
74 pipecolate	86,158	85,900	94,000	107,875
1531 piperine	144,936	157,719	78,523	83,224
246 proline	2,276,136	2,143,683	2,344,439	2,205,136
809 propionylcarnitine	1,289,884	1,089,291	1,003,801	1,026,906
1181 pseudouridine	8,071	6,295	8,016	10,189
45 pyroglutamine*	217,914	153,990	165,113	199,223
603 pyrophosphate (PPi)	102,490	92,626	27,461	76,834

PATHWAY SORT

ORDER BIOCHEMICAL NAME

285 ophthalmate

244 ornithine

632 palmitate (16:0)

633 palmitoleate (16:1n7)

1004 palmitoyl sphingomyelin

833 palmitoylcarnitine

1243 pantothenate

1613 paraxanthine

88 p-cresol sulfate

621 pelargonate (9:0)

631 pentadecanoate (15:0)

135 phenol sulfate

128 phenylacetylglutamine

83 phenylalanine

602 phosphate

534 phosphoenolpyruvate (PEP)

877 phosphoethanolamine

74 pipecolate

1531 piperine

246 proline

809 propionylcarnitine

1181 pseudouridine

45 pyroglutamine*

603 pyrophosphate (PPi)

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00027	DARM-00028	DARM-00029	DARM-00030
		NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D51
		997723	997728	997722	997744
		991372	991373	991374	991375
		NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D28
		C D7	C D14	C D21	C D28
		181.946	180.175	185.286	186.197
		C D7	C D14	C D21	C D28
		2,612,024	1,233,071	1,064,282	884,012
535	pyruvate				
1469	ranitidine				
548	ribitol	192,978	151,854	156,197	250,366
557	ribose 5-phosphate	103,861	156,431	155,592	65,059
559	ribulose	20,289	26,440	22,860	32,354
224	S-adenosylhomocysteine (SAH)	215,285	218,722	251,737	229,574
551	sedoheptulose-7-phosphate	34,147	45,388	73,991	149,773
8	serine	7,328,767	9,014,268	7,163,924	8,348,743
216	S-methylcysteine	60,126	107,130	58,716	85,171
281	S-methylglutathione	33,263	25,149	30,967	48,782
270	spermidine	1,483,578	1,562,241	1,630,592	1,594,886
1584	stachydrine	3,516,873	3,386,667	3,385,275	3,445,669
637	stearate (18:0)	8,055,712	7,885,242	9,392,982	7,982,961
1005	stearoyl sphingomyelin	985,680	1,102,903	1,171,900	992,645
834	stearoylcarnitine	105,241	339,318	430,841	2,472,239
591	succinylcarnitine	580,363	608,239	644,169	647,327
1662	terephthalic acid	386,525	336,663	361,405	375,317
1614	theobromine	219,573	207,816	229,773	168,888
1615	theophylline	141,504	87,686	160,482	73,034
549	threitol	774,444	1,009,916	766,303	965,406
1199	threonate	436,950	480,646	457,574	409,992
17	threonine	180,434	201,578	227,682	242,880
252	trans-4-hydroxyproline	25,854	27,239	27,820	23,271

PATHWAY SORT ORDER	BIOCHEMICAL NAME	DARM-00027	DARM-00028	DARM-00029	DARM-00030
		NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D51
		997723	997728	997722	997744
		991372	991373	991374	991375
		NHSCI 1866 C D7	NHSCI 1866 C D14	NHSCI 1866 C D21	NHSCI 1866 C D28
		C D7	C D14	C D21	C D28
		181.946	180.175	185.286	186.197
		C D7	C D14	C D21	C D28
	501 trehalose	476,243	998,895	791,556	1,379,798
	1242 trigonelline (N ¹ -methylnicotinate)	476,134	476,112	501,977	487,468
	145 tryptophan	3,808,759	4,151,956	4,103,621	4,203,022
	151 tryptophan betaine	4,345,513	4,368,475	4,281,072	4,256,259
	99 tyrosine	2,597,682	2,713,701	2,648,452	2,987,171
	1149 urate	189,204	172,683	170,845	138,051
	245 urea	24,193,656	27,595,104	24,141,402	26,030,124
	1180 uridine	29,864	34,372	40,913	41,433
	190 valine	9,670,583	10,262,873	10,083,593	10,646,373
	565 xylitol		13,661		
	570 xylonate	58,551	77,409	56,203	71,113
	569 xylose	151,298	112,753		87,341

PATHWAY

SORTORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	COMP ID	PLATFORM	RI	MASS	CAS
905	1,2-propanediol	Lipid	Ketone bodies	38002	GC/MS	1041	117	57-55-6;
532	1,3-dihydroxyacetone	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	35981	GC/MS	1349	306.1	62147-49-3;
515	1,5-anhydroglucitol (1,5-AG)	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	20675	GC/MS	1788.7	217	154-58-5;
523	1,6-anhydroglucose	Carbohydrate	pyruvate metabolism	21049	GC/MS	1679.5	204.1	498-07-7;
636	10-heptadecenoate (17:1n7)	Lipid	Long chain fatty acid	33971	LC/MS Neg	5558	267.3	29743-97-3;
742	13-methylmyristic acid	Lipid	Fatty acid, branched	38293	LC/MS Neg	5498	241.3	2485-71-4;
744	15-methylpalmitate (isobar with 2-	Lipid	Fatty acid, branched	38768	LC/MS Neg	5698	269.4	
919	1-arachidonoylglycerophosphoethanolamine*	Lipid	Lysolipid	35186	LC/MS Neg	5731	500.3	
938	1-linoleoylglycerophosphocholine	Lipid	Lysolipid	34419	LC/MS Neg	5844	594	
926	1-myristoylglycerophosphocholine	Lipid	Lysolipid	35626	LC/MS Pos	5481	468.3	20559-16-4;
936	1-oleoylglycerophosphocholine	Lipid	Lysolipid	33960	LC/MS Pos	5700	522.4	19420-56-5;
915	1-oleoylglycerophosphoethanolamine	Lipid	Lysolipid	35628	LC/MS Neg	5928	478.3	
970	1-palmitoylglycerol (1-monopalmitin)	Lipid	Monoacylglycerol	21127	GC/MS	2119.5	371.3	542-44-9;
929	1-palmitoylglycerophosphocholine	Lipid	Lysolipid	33955	LC/MS Pos	5671	496.4	17364-16-8;
909	1-palmitoylglycerophosphoethanolamine	Lipid	Lysolipid	35631	LC/MS Neg	5940	452.3	
934	1-stearoylglycerophosphocholine	Lipid	Lysolipid	33961	LC/MS Pos	5844	524.4	19420-57-6;
533	2,3-diphosphoglycerate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	15664	LC/MS Neg	580	264.9	102783-53-9;
263	2-aminobutyrate	Amino acid	Butanoate metabolism	1577	GC/MS	1215.7	130	1492-24-6;
945	2-arachidonoylglycerophosphocholine*	Lipid	Lysolipid	35256	LC/MS Pos	5524	544.3	
920	2-arachidonoylglycerophosphoethanolamine*	Lipid	Lysolipid	34656	LC/MS Pos	5525	502.3	
923	2-docosahexaenoylglycerophosphoethanolamine*	Lipid	Lysolipid	34258	LC/MS Pos	5512	526.2	
922	2-docosapentaenoylglycerophosphoethanolamine*	Lipid	Lysolipid	34875	LC/MS Pos	5548	528.2	
1360	2-ethylhexanoate (isobar with 2-propylpentanoate)	Xenobiotics	Chemical	35490	LC/MS Neg	3909	143.1	
229	2-hydroxybutyrate (AHB)	Amino acid	Cysteine, methionine, SAM, taurine metabolism	21044	GC/MS	1169.4	130.9	3347-90-8;
714	2-hydroxyglutarate	Lipid	Fatty acid, dicarboxylate	37253	GC/MS	1576	247	40951-21-1;
706	2-hydroxypalmitate	Lipid	Fatty acid, monohydroxy	35675	LC/MS Neg	5508	271.3	764-67-0;
939	2-linoleoylglycerophosphocholine*	Lipid	Lysolipid	35257	LC/MS Pos	5544	520.4	
202	2-methylbutyrocarnitine	Amino acid	Valine, leucine and isoleucine	35431	LC/MS Pos	2439	246.1	31023-25-3;
937	2-oleoylglycerophosphocholine*	Lipid	Lysolipid	35254	LC/MS Pos	5640	522.4	
930	2-palmitoylglycerophosphocholine*	Lipid	Lysolipid	35253	LC/MS Pos	5604	496.3	

PATHWAY

SORTORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	COMP ID	PLATFORM	RI	MASS	CAS
935	2-stearoylglycerophosphocholine*	Lipid	Lysolipid	35255	LC/MS Pos	5780	524.4	
821	3-dehydrocarnitine*	Lipid	Carnitine metabolism	32654	LC/MS Pos	1020	160.2	10457-99-5;
170	3-indoxyl sulfate	Amino acid	Tryptophan metabolism	27672	LC/MS Neg	2258	212	2642-37-7;
172	3-methyl-2-oxobutyrate	Amino acid	Valine, leucine and isoleucine	21047	LC/MS Neg	1489	115.1	3715-29-5;
173	3-methyl-2-oxovalerate	Amino acid	Valine, leucine and isoleucine	15676	LC/MS Neg	2106	129.2	51829-07-3;
529	3-phosphoglycerate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	1414	GC/MS	1754	299	80731-10-8;
193	4-methyl-2-oxopentanoate	Amino acid	Valine, leucine and isoleucine	22116	LC/MS Neg	2200	129.2	816-66-0;
266	5-methylthioadenosine (MTA)	Amino acid	Polyamine metabolism	1419	LC/MS Pos	2427	298.1	2457-80-9;
282	5-oxoproline	Amino acid	Glutathione metabolism	1494	LC/MS Neg	744	128.2	98-79-3;
545	6-phosphogluconate	Carbohydrate	Nucleotide sugars, pentose	15442	GC/MS	2060.4	387.2	921-62-0;53411-70-4;
1024	7-beta-hydroxycholesterol	Lipid	Sterol/Steroid	35092	GC/MS	2340	456.4	566-27-8;
712.5	9,10-epoxyoctadec-12(Z)-enoic acid	Lipid	Long chain fatty acid	38398	LC/MS Neg	5328	295.4	
672	9,10-epoxystearate	Lipid	Fatty acid, oxidized	39627	LC/MS Neg	5386.6	297.4	
822	acetylcarnitine	Lipid	Carnitine metabolism	32198	LC/MS Pos	1203	204.2	5080-50-2;
601	acetylphosphate	Energy	Oxidative phosphorylation	15488	GC/MS	1263	211	94249-01-1;
1105	adenine	Nucleotide	Purine metabolism, adenine	554	LC/MS Pos	1003	136.1	73-24-5;
1106	adenosine	Nucleotide	Purine metabolism, adenine	555	LC/MS Pos	1650	268.1	58-61-7;
1116	adenosine 5'-diphosphate (ADP)	Nucleotide	Purine metabolism, adenine	3108	LC/MS Neg	800	426.1	20398-34-9;
1232	adenosine 5'diphosphoribose	Cofactors and vitamins	Nicotinate and nicotinamide	558	LC/MS Neg	964	558.1	68414-18-6;
1114	adenosine 5'-monophosphate (AMP)	Nucleotide	Purine metabolism, adenine	32342	LC/MS Pos	1210	348.1	149022-20-8;
665	adrenate (22:4n6)	Lipid	Long chain fatty acid	32980	LC/MS Neg	5684	331.3	2091-25-0;
27	alanine	Amino acid	Alanine and aspartate	1126	GC/MS	1147.6	115.9	56-41-7;
1150	allantoin	Nucleotide	Purine metabolism, urate	1107	GC/MS	1809.8	518.3	97-59-6;
179	alpha-hydroxyisocaproate	Amino acid	Valine, leucine and isoleucine	22132	GC/MS	1274	102.8	10303-64-7;
198	alpha-hydroxyisovalerate	Amino acid	Valine, leucine and isoleucine	33937	GC/MS	1208	145.1	600-37-3;
1266	alpha-tocopherol	Cofactors and vitamins	Tocopherol metabolism	1561	GC/MS	2305.4	502.5	59-02-9;10191-41-0;
1034	androsterone sulfate	Lipid	Sterol/Steroid	31591	LC/MS Neg	5011	369.2	2479-86-9 ;
566	arabinose	Carbohydrate	Nucleotide sugars, pentose	575	GC/MS	1631.6	217	28697-53-2;
546	arabitol	Carbohydrate	Nucleotide sugars, pentose	15964	GC/MS	1687.5	217	488-82-4;
1202	arabonate	Cofactors and vitamins	Ascorbate and aldarate	37516	GC/MS	1736	292.1	7643-75-7;
659	arachidonate (20:4n6)	Lipid	Long chain fatty acid	1110	LC/MS Neg	5525	303.4	506-32-1;
241	arginine	Amino acid	Urea cycle; arginine-, proline-,	1638	GC/MS	1608.5	142	1119-34-2;
25	asparagine	Amino acid	Alanine and aspartate	512	GC/MS	1617.5	188	70-47-3;
24	aspartate	Amino acid	Alanine and aspartate	15996	GC/MS	1529.7	232	56-84-8;

PATHWAY

SORTORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	COMP ID	PLATFORM	RI	MASS	CAS
721	azelate (nonanedioate)	Lipid	Fatty acid, dicarboxylate	18362	LC/MS Neg	1322	187.2	123-99-9;
26	beta-alanine	Amino acid	Alanine and aspartate	55	GC/MS	1451.8	174	56-41-7;107-95-9;
7	beta-hydroxypruvate	Amino acid	Glycine, serine and threonine	15686	GC/MS	1425.1	221	3369-79-7;
22	betaine	Amino acid	Glycine, serine and threonine	3141	LC/MS Pos	721	118.2	107-43-7;
1057	beta-sitosterol	Lipid	Sterol/Steroid	27414	GC/MS	2380.8	357.4	83-46-5;
1216	biliverdin	Cofactors and vitamins	Hemoglobin and porphyrin Fatty acid metabolism (also	2137	LC/MS Pos	4936	583.3	55482-27-4;55482-27-4 ;
811	butyrylcarnitine	Lipid	BCAA metabolism)	32412	LC/MS Pos	2007	232.2	25576-40-3;
1612	caffeine	Xenobiotics	Xanthine metabolism	569	LC/MS Pos	2820	195.1	58-08-2;
1059	campesterol	Lipid	Sterol/Steroid	33997	GC/MS	2353	129	474-62-4;
622	caprate (10:0)	Lipid	Medium chain fatty acid	1642	LC/MS Neg	5092	171.2	112-37-8;
618	caproate (6:0)	Lipid	Medium chain fatty acid	32489	LC/MS Neg	2766	115.2	142-62-1;
620	caprylate (8:0)	Lipid	Medium chain fatty acid	32492	LC/MS Neg	4367	143.2	124-07-2;
820	carnitine	Lipid	Carnitine metabolism	15500	LC/MS Pos	702	162.2	461-05-2;
1300	catechol sulfate	Xenobiotics	Benzoate metabolism	35320	LC/MS Neg	1928	188.9	
164	C-glycosyltryptophan*	Amino acid	Tryptophan metabolism	32675	LC/MS Pos	1912	367.1	
1020	cholesterol	Lipid	Sterol/Steroid	63	GC/MS	2316.9	329.3	57-88-5;
881	choline	Lipid	Glycerolipid metabolism	15506	LC/MS Pos	674	104.2	67-48-1;
582	cis-aconitate	Energy	Krebs cycle	12025	LC/MS Neg	603	173.1	585-84-2;
641	cis-vaccenate (18:1n7)	Lipid	Long chain fatty acid	33970	GC/MS	1987	339.3	693-72-1;
579	citrate	Energy	Krebs cycle	1564	GC/MS	1763.4	273.1	77-92-9;
248	citrulline	Amino acid	Urea cycle; arginine-, proline-,	2132	LC/MS Pos	715	176.1	372-75-8;
259	creatine	Amino acid	Creatine metabolism	27718	LC/MS Pos	758	132.1	57-00-1;
260	creatinine	Amino acid	Creatine metabolism Cysteine, methionine, SAM,	513	LC/MS Pos	730	114.1	60-27-5;
213	cysteine	Amino acid	taurine metabolism	31453	GC/MS	1560.1	218	52-90-4;56-89-3;
819	deoxycarnitine	Lipid	Carnitine metabolism	36747	LC/MS Pos	759	146.1	6249-56-5;
655	dihomo-linoleate (20:2n6)	Lipid	Long chain fatty acid	17805	LC/MS Neg	5722	307.3	2091-39-6;
609	dihomo-linolenate (20:3n3 or n6)	Lipid	Essential fatty acid Glycolysis, gluconeogenesis,	35718	LC/MS Neg	5600	305.4	
531	dihydroxyacetone phosphate (DHAP)	Carbohydrate	pyruvate metabolism	15522	GC/MS	1737	315.1	102783-56-2;
3	dimethylglycine	Amino acid	Glycine, serine and threonine	5086	GC/MS	1030	57.9	1118-68-9;
613	docosaheaxaenoate (DHA; 22:6n3)	Lipid	Essential fatty acid	19323	LC/MS Neg	5518	327.3	6217-54-5;
611	docosapentaenoate (n3 DPA; 22:5n3)	Lipid	Essential fatty acid	32504	LC/MS Neg	5574	329.4	2234-74-4 ;
610	eicosapentaenoate (EPA; 20:5n3)	Lipid	Essential fatty acid	18467	LC/MS Neg	5442	301.3	10-2005-9;10417-94-4;

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SORTORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	COMP ID	PLATFORM	RI	MASS	CAS
1565	ergothioneine	Xenobiotics	Food component/Plant	37459	LC/MS Pos	847	230.2	58511-63-0;
735	erucamide	Lipid	Fatty acid, amide	35177	GC/MS	2173	203	112-84-5;
1632	erythritol	Xenobiotics	Sugar, sugar substitute, starch	20699	GC/MS	1517.5	217	149-32-6;
453	erythronate*	Carbohydrate	Aminosugars metabolism	33477	GC/MS	1546.9	292.1	13752-84-6;
876	ethanolamine	Lipid	Glycerolipid metabolism	1497	GC/MS	1304	174.1	141-43-5;
472	fructose	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	31266	GC/MS	1762.7	204	57-48-7;
524	fructose-6-phosphate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	12021	GC/MS	1994.9	315.1	103213-47-4;
594	fumarate	Energy	Krebs cycle	1643	GC/MS	1382.1	245	100-17-8;
404	gamma-glutamylleucine	Peptide	gamma-glutamyl	18369	LC/MS Pos	2744	261.2	2566-39-4;
521	glucose	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	20488	GC/MS	1866.8	217.1	50-99-7;
519	glucose-6-phosphate (G6P)	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	31260	GC/MS	2042.7	387.2	103192-55-8;
39	glutamate	Amino acid	Glutamate metabolism	57	GC/MS	1611.9	246	56-86-0;
44	glutamine	Amino acid	Glutamate metabolism	53	LC/MS Pos	684	147.2	56-85-9;
80	glutaroyl carnitine	Amino acid	Lysine metabolism	35439	LC/MS Pos	1565	276.1	102636-82-8;
283	glutathione, oxidized (GSSG)	Amino acid	Glutathione metabolism	27727	LC/MS Pos	1535	613.1	103239-24-3;
280	glutathione, reduced (GSH)	Amino acid	Glutathione metabolism	2127	LC/MS Pos	1274	308.1	70-18-8;
517	glycerate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	1572	GC/MS	1360.7	189	600-19-1;
882	glycerol 3-phosphate (G3P)	Lipid	pyruvate metabolism	15365	GC/MS	1719.7	357.1	29849-82-9;
883	glycerophosphorylcholine (GPC)	Lipid	Glycerolipid metabolism	15990	LC/MS Pos	694	258.1	28319-77-9;
1	glycine	Amino acid	Glycine, serine and threonine	11777	GC/MS	1166	101.9	56-40-6;
851	glycochenodeoxycholate	Lipid	Bile acid metabolism	32346	LC/MS Neg	5245	448.4	16564-43-5;
840	glycocholate	Lipid	Bile acid metabolism	18476	LC/MS Neg	5104	464.4	475-31-0;863-57-0;
849	glycodeoxycholate	Lipid	Bile acid metabolism	18477	LC/MS Neg	5265	448.4	360-65-6;
1318	glycolate (hydroxyacetate)	Xenobiotics	Chemical	15737	GC/MS	1119	177	79-14-1;
1128	guanosine	Nucleotide	Purine metabolism, guanine	1573	LC/MS Pos	1676	284	118-00-3;
1212	heme*	Cofactors and vitamins	Hemoglobin and porphyrin	32593	LC/MS Pos	4985	616.2	14875-96-8;
619	heptanoate (7:0)	Lipid	Medium chain fatty acid	1644	LC/MS Neg	3695	129.2	111-14-8;
823	hexanoylcarnitine	Lipid	Carnitine metabolism	32328	LC/MS Pos	3174	260.2	6920-35-0;
1288	hippurate	Xenobiotics	Benzoate metabolism	15753	LC/MS Neg	2136	178.1	495-69-2;
50	histidine	Amino acid	Histidine metabolism	59	LC/MS Neg	757	154.1	5934-29-2;

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SORTORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	COMP ID	PLATFORM	RI	MASS	CAS
231	homocysteine	Amino acid	Cysteine, methionine, SAM, taurine metabolism	40266	GC/MS	1648.2	234	454-29-5;
1585	homostachydrine*	Xenobiotics	Food component/Plant	33009	LC/MS Pos	1199	158.2	1195-94-4;
206	hydroxyisovaleroyl carnitine	Amino acid	Valine, leucine and isoleucine	35433	LC/MS Pos	1683	262.1	99159-87-2;
1098	hypoxanthine	Nucleotide	Purine metabolism, (hypo)xanthine/inosine	3127	GC/MS	1759.2	265	68-94-0;
1101	inosine 5'-monophosphate (IMP)	Nucleotide	Purine metabolism, (hypo)xanthine/inosine	2133	GC/MS	2254	315	4691-65-0;
527	Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol 1,4 or 1,3-diphosphate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	36984	LC/MS Neg	572	339	
561	Isobar: ribulose 5-phosphate, xylulose 5-phosphate	Carbohydrate	Nucleotide sugars, pentose	37288	GC/MS	1935	357.2	
496	Isobar: sorbitol, mannitol	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	33004	LC/MS Pos	709	183.1	
200	isobutyrylcarnitine	Amino acid	Valine, leucine and isoleucine	33441	LC/MS Pos	1941	232.2	25518-49-4;
180	isoleucine	Amino acid	Valine, leucine and isoleucine	1125	LC/MS Pos	1614	132.1	73-32-5;
478	isomaltose	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	39777	GC/MS	2221.8	204.1	499-40-1;
205	isovalerylcarnitine	Amino acid	Valine, leucine and isoleucine	34407	LC/MS Pos	2533	246.2	
144	kynurenine	Amino acid	Tryptophan metabolism	15140	LC/MS Pos	1902	209.1	2922-83-0;
536	lactate	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	527	GC/MS	1102.8	116.9	79-33-4;
1018	lathosterol	Lipid	Sterol/Steroid	39864	GC/MS	2337	255.2	80-99-9 ;
625	laurate (12:0)	Lipid	Medium chain fatty acid	1645	LC/MS Neg	5288	199.3	143-07-7;
181	leucine	Amino acid	Valine, leucine and isoleucine	60	LC/MS Pos	1674	132.2	61-90-5;
604	linoleate (18:2n6)	Lipid	Essential fatty acid	1105	LC/MS Neg	5533	279.3	60-33-3;
608	linolenate [alpha or gamma; (18:3n3 or 6)]	Lipid	Essential fatty acid	34035	LC/MS Neg	5450	277.3	
69	lysine	Amino acid	Lysine metabolism	1301	GC/MS	1836.7	317.2	56-87-1;
598	malate	Energy	Krebs cycle	1303	GC/MS	1502	233	6915-15-7;
482	maltose	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	15806	GC/MS	2142.1	204.1	6363-53-7;
487	mannose	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	584	GC/MS	1753.5	203.9	3458-28-4;
489	mannose-6-phosphate	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	1470	GC/MS	2035.9	387.2	70442-25-0;104872-94-8;
635	margarate (17:0)	Lipid	Long chain fatty acid	1121	LC/MS Neg	5733	269.3	506-12-7;

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SORTORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	COMP ID	PLATFORM	RI	MASS	CAS
658	mead acid (20:3n9)	Lipid	Long chain fatty acid	35174	LC/MS Neg	5642	305.4	20590-32-3;
225	methionine	Amino acid	Cysteine, methionine, SAM,	1302	LC/MS Pos	1252	150.1	63-68-3;
890	myo-inositol	Lipid	taurine metabolism	19934	GC/MS	1924.9	217	87-89-8;
629	myristate (14:0)	Lipid	Inositol metabolism	1365	LC/MS Neg	5439	227.3	544-63-8;
630	myristoleate (14:1n5)	Lipid	Long chain fatty acid	32418	LC/MS Neg	5338	225.3	544-64-9 ;
1242.1	N1-Methyl-2-pyridone-5-carboxamide	Cofactors and vitamins	Long chain fatty acid	40469	LC/MS Pos	1707.3	153.2	701-44-0;
75	N-6-trimethyllysine	Amino acid	Nicotinate and nicotinamide	1498	LC/MS Pos	650	189.2	23284-33-5;
4	N-acetylglycine	Amino acid	Lysine metabolism	27710	GC/MS	1396.4	143.9	543-24-8;
227	N-acetylmethionine	Amino acid	Glycine, serine and threonine	1589	LC/MS Neg	1805	190.1	65-82-7;
455	N-acetylneuraminic acid	Carbohydrate	Cysteine, methionine, SAM,	1592	GC/MS	2074.9	245	131-48-6;
1221	nicotinamide	Cofactors and vitamins	taurine metabolism	594	LC/MS Pos	1267	123.1	98-92-0;
1224	nicotinamide adenine dinucleotide (NAD+)	Cofactors and vitamins	Aminosugars metabolism	5278	LC/MS Neg	1411	661.8	53-84-9;
825	octanoylcarnitine	Lipid	Nicotinate and nicotinamide	33936	LC/MS Pos	4100	288.3	3671-77-0;
639	oleate (18:1n9)	Lipid	Carnitine metabolism	1359	GC/MS	1984.4	339.2	112-80-1;
835	oleoylcarnitine	Lipid	Long chain fatty acid	35160	LC/MS Pos	5202	426.4	
285	ophthalmate	Amino acid	Carnitine metabolism	34592	LC/MS Pos	1457	290.1	495-27-2;
244	ornithine	Amino acid	Glutathione metabolism	1493	GC/MS	1763.8	141.9	3184-13-2;
632	palmitate (16:0)	Lipid	Urea cycle; arginine-, proline-,	1336	LC/MS Neg	5619	255.3	57-10-3;
633	palmitoleate (16:1n7)	Lipid	Long chain fatty acid	33447	LC/MS Neg	5477	253.3	373-49-9;
1004	palmitoyl sphingomyelin	Lipid	Long chain fatty acid	37506	GC/MS	2524	311.3	
833	palmitoylcarnitine	Lipid	Sphingolipid	22189	LC/MS Pos	5179	400.4	6865-14-1;
1243	pantothenate	Cofactors and vitamins	Carnitine metabolism	1508	LC/MS Pos	2218	220.1	137-08-6;
1613	paraxanthine	Xenobiotics	Pantothenate and CoA	18254	LC/MS Pos	2444	181.2	611-59-6;
88	p-cresol sulfate	Amino acid	Xanthine metabolism	36103	LC/MS Neg	2896	187.1	3233-57-7;
621	pelargonate (9:0)	Lipid	Phenylalanine & tyrosine	12035	LC/MS Neg	4847	157.2	112-05-0;
631	pentadecanoate (15:0)	Lipid	Medium chain fatty acid	1361	LC/MS Neg	5522	241.3	1002-84-2;
135	phenol sulfate	Amino acid	Long chain fatty acid	32553	LC/MS Neg	2199	173.1	937-34-8;
128	phenylacetylglutamine	Amino acid	Phenylalanine & tyrosine	35126	LC/MS Pos	2868	265.2	28047-15-6;
83	phenylalanine	Amino acid	Phenylalanine & tyrosine	64	LC/MS Pos	2056	166.1	63-91-2;
602	phosphate	Energy	Phenylalanine & tyrosine	11438	GC/MS	1307.7	298.9	7664-38-2 ;
534	phosphoenolpyruvate (PEP)	Carbohydrate	Oxidative phosphorylation	597	GC/MS	1595.4	369	10526-80-4;
877	phosphoethanolamine	Lipid	Glycolysis, gluconeogenesis,	12102	GC/MS	1577.3	299.1	1071-23-4;
			pyruvate metabolism					
			Glycerolipid metabolism					

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74	pipecolate	Amino acid	Lysine metabolism	1444	LC/MS Pos	1120	130.1	4043-87-2;
1531	piperine	Xenobiotics	Food component/Plant	33935	LC/MS Pos	5136	286.2	94-62-2;
246	proline	Amino acid	Urea cycle; arginine-, proline-, Fatty acid metabolism (also	1898	LC/MS Pos	796	116.1	147-85-3;
809	propionylcarnitine	Lipid	BCAA metabolism)	32452	LC/MS Pos	1589	218.2	17298-37-2 ;
1181	pseudouridine	Nucleotide	Pyrimidine metabolism, uracil	33442	LC/MS Neg	1104	243.1	1445-07-4;
45	pyroglutamine*	Amino acid	Glutamate metabolism	32672	LC/MS Pos	764	129.2	
603	pyrophosphate (PPi)	Energy	Oxidative phosphorylation Glycolysis, gluconeogenesis,	2078	GC/MS	1642.3	451	1466-09-3;
535	pyruvate	Carbohydrate	pyruvate metabolism	599	GC/MS	1130.6	217	127-17-3;
1469	ranitidine	Xenobiotics	Drug	38595	LC/MS Pos	1967	315.1	66357-59-3;
548	ribitol	Carbohydrate	Nucleotide sugars, pentose	15772	GC/MS	1692.4	217	488-81-3;
557	ribose 5-phosphate	Carbohydrate	Nucleotide sugars, pentose	561	GC/MS	1928.4	315.1	18265-46-8;108321-05-7;
559	ribulose	Carbohydrate	Nucleotide sugars, pentose	35855	GC/MS	1662	306.1	488-84-6;
224	S-adenosylhomocysteine (SAH)	Amino acid	Cysteine, methionine, SAM, taurine metabolism	15948	LC/MS Pos	1480	385.1	979-92-0;
551	sedoheptulose-7-phosphate	Carbohydrate	Nucleotide sugars, pentose	35649	GC/MS	2070	691.35	2646-35-7;
8	serine	Amino acid	Glycine, serine and threonine Cysteine, methionine, SAM,	1648	GC/MS	1389.1	204	56-45-1;
216	S-methylcysteine	Amino acid	taurine metabolism	39592	GC/MS	1447.8	218.1	1187-84-4;
281	S-methylglutathione	Amino acid	Glutathione metabolism	33944	LC/MS Pos	1610	322.1	2922-56-7;
270	spermidine	Amino acid	Polyamine metabolism	485	LC/MS Pos	533	146.2	124-20-9;
1584	stachydrine	Xenobiotics	Food component/Plant	34384	LC/MS Pos	860	144.1	4136-37-2;
637	stearate (18:0)	Lipid	Long chain fatty acid	1358	LC/MS Neg	5886	283.4	57-11-4; 85187-10-6;85187-10-6
1005	stearoyl sphingomyelin	Lipid	Sphingolipid	19503	GC/MS	2645	311.3 ;	
834	stearoylcarnitine	Lipid	Carnitine metabolism	34409	LC/MS Pos	5300	428.4	18822-91-8;
591	succinylcarnitine	Energy	Krebs cycle	37058	LC/MS Pos	1401	262.1	
1662	terephthalic acid	Xenobiotics	Phthalate	20684	GC/MS	1746.7	295	100-21-0;
1614	theobromine	Xenobiotics	Xanthine metabolism	18392	LC/MS Pos	2136	181.1	83-67-0;
1615	theophylline	Xenobiotics	Xanthine metabolism	18394	LC/MS Pos	2495	181.1	58-55-9;
549	threitol	Carbohydrate	Nucleotide sugars, pentose	35854	GC/MS	1513	217.1	2418-52-2;
1199	threonate	Cofactors and vitamins	Ascorbate and aldarate	27738	GC/MS	1560.7	292.1	70753-61-6;
17	threonine	Amino acid	Glycine, serine and threonine	1284	LC/MS Pos	713	120.1	72-19-5;
252	trans-4-hydroxyproline	Amino acid	Urea cycle; arginine-, proline-,	32306	LC/MS Pos	705	132.1	51-35-4;

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SORTORDER	BIOCHEMICAL NAME	SUPER PATHWAY	SUB PATHWAY	COMP ID	PLATFORM	RI	MASS	CAS
501	trehalose	Carbohydrate	Fructose, mannose, galactose, starch, and sucrose metabolism	15573	GC/MS	2174.9	361.2	6138-23-4;
1242	trigonelline (N'-methylnicotinate)	Cofactors and vitamins	Nicotinate and nicotinamide	32401	LC/MS Pos	757	138.1	6138-41-6 ;
145	tryptophan	Amino acid	Tryptophan metabolism	54	LC/MS Pos	2445	205.1	73-22-3;
151	tryptophan betaine	Amino acid	Tryptophan metabolism	37097	LC/MS Pos	2464	247.1	20671-76-5;
99	tyrosine	Amino acid	Phenylalanine & tyrosine	1299	LC/MS Pos	1516	182.1	60-18-4;
1149	urate	Nucleotide	Purine metabolism, urate	1604	LC/MS Neg	769	167.1	69-93-2;120K5305;
245	urea	Amino acid	Urea cycle; arginine-, proline-,	1670	GC/MS	1223.9	171	57-13-6;
1180	uridine	Nucleotide	Pyrimidine metabolism, uracil	606	LC/MS Neg	1467	243.1	58-96-8;
190	valine	Amino acid	Valine, leucine and isoleucine	1649	LC/MS Pos	1040	118.1	72-18-4;
565	xylitol	Carbohydrate	Nucleotide sugars, pentose	4966	GC/MS	1677.6	307.2	87-99-0;
570	xylonate	Carbohydrate	Nucleotide sugars, pentose	35638	GC/MS	1722	292	73686-31-7;
569	xylose	Carbohydrate	Nucleotide sugars, pentose	15835	GC/MS	1723.9	204	609-06-3;

PATHWAY		SAMPLE NAME		DARM-00001	DARM-00002	DARM-00003	DARM-00004	DARM-00005	DARM-00006
SORTORDER BIOCHEMICAL NAME		KEGG	Group HMDB	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2
				997731	997714	997743	997745	997721	997727
				991346	991347	991348	991349	991350	991351
				NHSCi 2003 T2	NHSCi 2003	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003
				D0	T2 D7	D14	D21	D28	T1 D0
				2003	2003	2003	2003	2003	2003
				T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
				168.571	179.95	177.746	178.439	181.508	193.651
				T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
905	1,2-propanediol	C00717,C0291	HMDB01881	0.093989	0.401140	0.845497	0.803099	0.965137	0.057564
532	1,3-dihydroxyacetone	C00184	HMDB01882	0.940856	1.054696	1.442171	0.968040	0.782828	0.864449
515	1,5-anhydroglucitol (1,5-AG)	C07326	HMDB02712	1.274625	1.032870	1.243681	1.023692	0.952805	0.975757
523	1,6-anhydroglucose		HMDB00640	1.238380	0.881507	0.829378	1.125241	1.036907	0.848109
636	10-heptadecenoate (17:1n7)			0.796267	1.104475	0.800071	0.822623	1.312559	0.741740
742	13-methylmyristic acid			0.522885	0.933119	1.053420	0.981142	1.309046	0.354055
744	15-methylpalmitate (isobar with 2-			0.507116	1.167255	1.115206	0.996511	1.513833	0.533293
919	1-arachidonoylglycerophosphoethanolamine*		HMDB11517	1.366868	1.576872	0.975005	0.951585	1.119687	0.889218
938	1-linoleoylglycerophosphocholine	C04100		1.123556	1.370209	0.865878	0.894989	1.178065	0.933502
926	1-myristoylglycerophosphocholine		HMDB10379	0.416175	0.416175	0.427186	2.096404	0.698575	0.416175
936	1-oleoylglycerophosphocholine			0.178299	0.088629	0.185859	2.328282	1.163134	0.065166
915	1-oleoylglycerophosphoethanolamine		HMDB11506	1.128128	1.252342	0.677501	0.738376	0.604000	0.830202
970	1-palmitoylglycerol (1-monopalmitin)			0.440006	1.130496	1.076263	1.079450	0.922820	0.806115
929	1-palmitoylglycerophosphocholine			0.123750	0.125820	0.181043	2.182270	1.378549	0.089435
909	1-palmitoylglycerophosphoethanolamine		HMDB11503	1.088055	1.385403	1.022251	1.199668	1.166131	0.775325
934	1-stearoylglycerophosphocholine			0.193808	0.120311	0.189197	1.838468	0.975918	0.098363
533	2,3-diphosphoglycerate	C01159	HMDB01294	4.138947	1.554595	0.311838	0.074544	0.068895	4.676921
263	2-aminobutyrate	C02261	HMDB00650	0.629355	0.625711	0.769009	0.740084	0.580321	0.496951
945	2-arachidonoylglycerophosphocholine*			0.185345	0.191578	0.185345	1.677087	0.185345	0.185345
920	2-arachidonoylglycerophosphoethanolamine*			0.085869	0.067968	0.193090	1.575407	0.558041	0.064698
923	2-docosahexaenoylglycerophosphoethanolamine*			0.174717	0.095479	0.253343	1.256097	0.748772	0.095479
922	2-docosapentaenoylglycerophosphoethanolamine*			0.089145	0.134588	0.328537	0.987333	0.648933	0.089145
1360	2-ethylhexanoate (isobar with 2-propylpentanoate)			0.994715	1.127048	1.104864	0.500813	0.500813	1.506461
229	2-hydroxybutyrate (AHB)	C05984	HMDB00008	0.962316	0.755261	0.873506	0.941181	0.735501	0.827288
714	2-hydroxyglutarate	C02630	HMDB00606	0.569776	0.439821	0.993450	0.783255	1.070138	0.511422
706	2-hydroxypalmitate			0.970627	1.168187	1.022629	0.802534	1.235599	0.520610
939	2-linoleoylglycerophosphocholine*			0.229996	0.229996	0.229996	1.364130	0.769369	0.229996
202	2-methylbutyrylcarnitine		HMDB00378	0.854777	0.913628	0.903239	0.726604	1.014510	1.023880
937	2-oleoylglycerophosphocholine*			0.191712	0.191712	0.191712	1.298431	0.666356	0.191712
930	2-palmitoylglycerophosphocholine*			0.086420	0.086420	0.143326	2.052493	0.832508	0.086420

PATHWAY	SORTORDER	BIOCHEMICAL NAME	KEGG	SAMPLE NAME CLIENT IDENTIFIER SAMPLE ID PARENT SAMPLE ID ACTUAL UNIT COND DAY BRADFORD PROTEIN	DARM-00001	DARM-00002	DARM-00003	DARM-00004	DARM-00005	DARM-00006
					NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2 I	NHSCi 2003 T2 C	NHSCi 2003 T1
					997731	997714	997743	997745	997721	997727
					991346	991347	991348	991349	991350	991351
					NHSCi 2003 T2	NHSCi 2003	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003
					D0	T2 D7	D14	D21	D28	T1 D0
					2003	2003	2003	2003	2003	2003
					T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
					168.571	179.95	177.746	178.439	181.508	193.651
					T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
					0.572527	0.142354	0.142354	1.940494	0.940968	0.142354
		935 2-stearoylglycerophosphocholine*			0.572527	0.142354	0.142354	1.940494	0.940968	0.142354
		821 3-dehydrocarnitine*	C02636	HMDB12154	1.076919	0.924933	0.976938	1.033407	1.013969	0.910554
		170 3-indoxyl sulfate		HMDB00682	1.712419	1.255098	1.445637	1.530830	1.540111	1.229409
		172 3-methyl-2-oxobutyrate	C00141	HMDB00019	1.075324	1.155141	1.309651	0.984266	0.854008	0.403093
		173 3-methyl-2-oxovalerate	C00671	HMDB03736	1.043241	0.978637	1.246686	1.215393	1.035149	0.592511
		529 3-phosphoglycerate	C00597	HMDB00807	2.374659	1.117753	0.844108	0.429645	0.515288	3.533836
		193 4-methyl-2-oxopentanoate	C00233	HMDB00695	1.156508	1.141842	1.396480	1.094258	1.006348	0.588241
		266 5-methylthioadenosine (MTA)	C00170	HMDB01173	0.449465	0.754355	1.231740	1.271453	1.074281	0.315499
		282 5-oxoproline	C01879	HMDB00267	0.165879	0.565747	0.968489	1.322304	1.692893	0.157881
		545 6-phosphogluconate	C00345	HMDB01316	2.695675	1.212385	1.018991	0.981009	0.734737	0.598150
		1024 7-beta-hydroxycholesterol	C03594	HMDB06119	1.329854	1.093651	1.080549	1.516603	1.004637	0.363094
		712.5 9,10-epoxyoctadec-12(Z)-enoic acid	C14825	HMDB04701	0.113908	0.601718	0.964045	0.972183	1.082745	0.042011
		672 9,10-epoxystearate			0.044171	0.773191	0.950427	0.993213	1.196794	0.030000
		822 acetylcarnitine	C02571	HMDB00201	1.126087	0.881193	0.906692	0.820706	0.867728	0.955412
		601 acetylphosphate	C00227	HMDB01494	1.029339	0.963066	1.009106	1.075334	0.815509	0.684729
		1105 adenine	C00147	HMDB00034	1.395489	1.026574	0.783973	0.632388	0.507260	1.193781
		1106 adenosine	C00212	HMDB00050	0.449049	0.638120	0.679083	0.923837	1.393348	0.984137
		1116 adenosine 5'-diphosphate (ADP)	C00008	HMDB01341	1.390162	1.383267	0.897989	0.996594	1.189003	1.444857
		1232 adenosine 5'diphosphoribose	C00301	HMDB01178	1.267679	1.058207	1.103961	1.020994	0.993634	1.093751
		1114 adenosine 5'-monophosphate (AMP)	C00020	HMDB00045	0.715566	0.966972	0.935805	0.904164	1.404471	1.066409
		665 adrenate (22:4n6)	C16527	HMDB02226	0.486736	1.902288	0.889997	1.304018	1.230291	0.369250
		27 alanine	C00041	HMDB00161	0.912282	0.809323	1.048377	1.073185	1.000614	0.669428
		1150 allantoin	C02350	HMDB00462	1.731724	1.144911	1.216153	0.726424	1.250808	1.063616
		179 alpha-hydroxyisocaproate	C03264	HMDB00746	0.292412	0.292412	0.380921	0.832896	1.423024	0.292412
		198 alpha-hydroxyisovalerate		HMDB00407	0.829316	0.644653	0.847666	0.966061	1.251663	0.824864
		1266 alpha-tocopherol	C02477	HMDB01893	1.419880	1.212748	1.440249	1.473337	1.096169	0.986832
		1034 androsterone sulfate	C00523	HMDB02759	1.050185	0.757073	0.922578	0.880415	0.788449	0.847041
		566 arabinose	C00181	HMDB00646	1.066035	0.792435	1.187882	0.910478	0.983765	0.851556
		546 arabitol	C00474	HMDB01851	1.062259	0.791483	1.076288	1.042036	0.831019	0.870610
		1202 arabonate		HMDB00539	1.088700	0.833567	0.776673	1.036803	1.000331	1.008680
		659 arachidonate (20:4n6)	C00219	HMDB01043	1.089373	1.462770	0.833837	0.994535	1.825296	0.976271
		241 arginine	C00062	HMDB00517	1.194589	0.559059	0.964406	0.785271	1.480900	0.795852
		25 asparagine	C00152	HMDB00168	1.141829	0.913989	0.966493	0.928296	0.674187	0.904378
		24 aspartate	C00049	HMDB00191	1.214478	1.001431	1.277627	1.401880	1.213226	1.085541

PATHWAY	SORTORDER	BIOCHEMICAL NAME	KEGG	SAMPLE NAME CLIENT IDENTIFIER SAMPLE ID PARENT SAMPLE ID ACTUAL UNIT COND DAY BRADFORD PROTEIN	DARM-00001	DARM-00002	DARM-00003	DARM-00004	DARM-00005	DARM-00006
					NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T1
			Group HMDB		997731	997714	997743	997745	997721	997727
					991346	991347	991348	991349	991350	991351
					NHSCi 2003 T2	NHSCi 2003	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003
					D0	T2 D7	D14	D21	D28	T1 D0
					2003	2003	2003	2003	2003	2003
					T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
					168.571	179.95	177.746	178.439	181.508	193.651
					T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
	721	azelate (nonanedioate)	C08261	HMDB00784	0.245042	0.595599	1.073954	1.371530	1.768580	0.230852
	26	beta-alanine	C00099	HMDB00056	0.900905	0.941909	0.951472	0.931881	0.632220	0.490479
	7	beta-hydroxypyruvate	C00168	HMDB01352	1.209736	0.795568	1.049309	0.666684	1.002750	0.899862
	22	betaine		HMDB00043	0.794116	0.667522	0.834714	0.823645	0.728270	0.793730
	1057	beta-sitosterol	C01753	HMDB00852	0.570500	0.349092	0.349092	0.770647	0.357752	0.525103
	1216	biliverdin	C00500	HMDB01008	0.522259	0.522259	0.522259	1.166977	0.625312	0.551372
	811	butyrylcarnitine			1.043461	0.828255	1.079063	0.752751	0.598389	0.999344
	1612	caffeine	C07481	HMDB01847	0.999314	0.822552	0.914438	0.875849	0.830690	0.855801
	1059	campesterol	C01789	HMDB02869	1.094301	0.478278	1.000000	0.776528	0.469755	1.104270
	622	caprate (10:0)	C01571	HMDB00511	0.569170	0.980594	1.284473	1.071891	0.992421	0.430953
	618	caproate (6:0)	C01585	HMDB00535	1.581021	1.065844	1.189805	0.838839	0.788805	1.557801
	620	caprylate (8:0)	C06423	HMDB00482	0.389680	0.838546	1.716807	1.182484	1.354962	0.814413
	820	carnitine			1.021174	0.823129	0.955729	0.927607	0.920565	0.796767
	1300	catechol sulfate	C00090		1.165133	0.995666	1.101118	1.008261	0.969035	0.965027
	164	C-glycosyltryptophan*			1.035688	0.857870	0.917760	0.918208	0.924370	0.936158
	1020	cholesterol	C00187	HMDB00067	1.010012	0.884618	1.005086	1.018152	0.909531	0.831067
	881	choline			0.457805	0.519088	0.510624	0.566353	0.597473	0.483461
	582	cis-aconitate	C00417	HMDB00072	0.647851	1.005747	1.064489	1.053564	1.170318	0.638058
	641	cis-vaccenate (18:1n7)	C08367		1.639499	1.022769	0.551118	0.725897	1.009816	0.563160
	579	citrate	C00158	HMDB00094	1.455945	1.109140	1.137108	1.011044	0.881536	1.223980
	248	citrulline	C00327	HMDB00904	1.152402	1.054559	1.163516	1.053651	1.189787	1.168537
	259	creatine	C00300	HMDB00064	0.993535	0.891023	0.906751	0.890437	0.862782	0.841125
	260	creatinine	C00791	HMDB00562	0.865685	0.968933	0.930878	0.998699	0.767573	0.859310
	213	cysteine	C00097	HMDB00574	0.776267	0.747842	0.990776	1.865414	1.711294	0.448327
	819	deoxycarnitine	C01181	HMDB01161	1.040861	0.850303	0.972640	0.851995	0.906019	0.955015
	655	dihomo-linoleate (20:2n6)	C16525		0.685223	1.012127	0.748911	0.760888	1.377872	0.545316
	609	dihomo-linolenate (20:3n3 or n6)	C03242	HMDB02925	1.113018	1.398940	0.936092	1.103451	1.945842	0.973365
	531	dihydroxyacetone phosphate (DHAP)	C00111	HMDB01473	0.385793	1.056641	0.320859	0.622944	0.239333	44.147339
	3	dimethylglycine	C01026	HMDB00092	0.993914	0.967463	0.870135	1.538440	0.832408	0.620077
	613	docosahexaenoate (DHA; 22:6n3)	C06429	HMDB02183	0.794951	1.239805	0.934690	1.240075	2.147000	0.747328
	611	docosapentaenoate (n3 DPA; 22:5n3)	C16513	HMDB01976	0.658557	0.882298	0.966259	1.000485	1.707321	0.615944
	610	eicosapentaenoate (EPA; 20:5n3)	C06428	HMDB01999	1.015692	1.335128	0.760620	1.162985	1.596989	0.959060

PATHWAY		KEGG	Group	HMDDB	DARM-00001	DARM-00002	DARM-00003	DARM-00004	DARM-00005	DARM-00006
SORTORDER	BIOCHEMICAL NAME				NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T1
					997731	997714	997743	997745	997721	997727
					991346	991347	991348	991349	991350	991351
					NHSCi 2003 T2	NHSCi 2003	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003
					D0	T2 D7	D14	D21	D28	T1 D0
					2003	2003	2003	2003	2003	2003
					T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
					168.571	179.95	177.746	178.439	181.508	193.651
					T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
1565	ergothioneine	C05570		HMDB03045	0.835187	0.776632	0.736140	0.680171	0.755074	0.733015
735	erucamide				0.527467	0.703786	0.741920	1.776732	0.727185	0.427592
1632	erythritol	C00503		HMDB02994	0.653841	0.720044	1.045748	1.259075	1.305161	0.610686
453	erythronate*			HMDB00613	0.689475	0.775144	0.950500	1.032711	0.960244	0.598603
876	ethanolamine	C00189		HMDB00149	0.549032	1.054160	1.158327	1.052428	0.824532	0.585552
472	fructose	C00095		HMDB00660	0.919175	0.835912	1.072641	1.142352	1.017204	0.646730
524	fructose-6-phosphate	C05345		HMDB00124	1.048181	1.013336	1.010773	0.788031	0.832102	0.481086
594	fumarate	C00122		HMDB00134	0.699296	0.705909	0.653853	0.714851	0.987097	0.691151
404	gamma-glutamylleucine			HMDB11171	1.263046	0.956229	0.935706	1.260536	0.935957	0.960392
521	glucose	C00293		HMDB00122	1.100613	0.894063	0.999561	0.975802	0.956884	0.914791
519	glucose-6-phosphate (G6P)	C00668		HMDB01401	1.101610	0.939321	1.137970	0.666145	0.877208	0.075532
39	glutamate	C00025		HMDB03339	0.968093	0.679776	0.890358	0.846317	0.889278	0.957911
44	glutamine	C00064		HMDB00641	1.363576	1.198844	1.033190	1.000241	0.820056	1.274925
80	glutaroyl carnitine			HMDB13130	1.225842	0.848082	0.561030	0.561030	0.561030	0.667386
283	glutathione, oxidized (GSSG)	C00127		HMDB03337	1.440573	1.002163	1.010711	0.997837	0.719527	1.269335
280	glutathione, reduced (GSH)	C00051		HMDB00125	1.231496	0.756086	1.150949	1.009302	0.735478	1.070710
517	glycerate	C00258		HMDB00139	0.454046	0.579083	0.765712	0.950256	0.917643	0.462533
882	glycerol 3-phosphate (G3P)	C00093		HMDB00126	1.063160	0.882808	0.923560	0.666260	0.866868	3.677948
883	glycerophosphorylcholine (GPC)	C00670		HMDB00086	1.263060	0.997264	0.967765	0.977253	1.072449	0.927551
1	glycine	C00037		HMDB00123	0.784409	0.701784	1.029387	1.267401	1.440536	0.613590
851	glycochenodeoxycholate	C05466		HMDB00637	0.361362	0.333840	0.307484	0.268684	0.332119	0.306612
840	glycocholate	C01921		HMDB00138	0.132858	0.084103	0.167936	0.151510	0.079564	0.141719
849	glycodeoxycholate	C05464		HMDB00631	0.199279	0.199279	0.199279	0.331379	0.293438	0.199279
1318	glycolate (hydroxyacetate)	C00160		HMDB00115	1.078136	0.940027	1.117940	1.144272	0.930150	0.838677
1128	guanosine	C00387		HMDB00133	1.295695	0.984093	1.233850	1.022857	1.131049	1.155844
1212	heme*				0.954588	0.264021	0.482578	3.174177	0.788115	0.405137
619	heptanoate (7:0)	C17714		HMDB00666	0.800282	1.170681	1.666856	0.736404	0.944057	1.156421
823	hexanoylcarnitine	C01585		HMDB00705	1.978526	0.904615	1.150736	0.889297	1.434068	1.615980
1288	hippurate	C01586		HMDB00714	1.133840	0.956417	1.012884	1.016509	1.064161	0.921184
50	histidine	C00135		HMDB00177	0.898835	0.912690	0.798434	1.230160	1.035040	1.171108

PATHWAY SORTORDER	BIOCHEMICAL NAME	KEGG	SAMPLE NAME CLIENT IDENTIFIER SAMPLE ID PARENT SAMPLE ID ACTUAL UNIT COND DAY BRADFORD PROTEIN Group HMDB	DARM-00001	DARM-00002	DARM-00003	DARM-00004	DARM-00005	DARM-00006
				NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T1
				997731	997714	997743	997745	997721	997727
				991346	991347	991348	991349	991350	991351
				NHSCi 2003 T2	NHSCi 2003	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003
				D0	T2 D7	D14	D21	D28	T1 D0
				2003	2003	2003	2003	2003	2003
				T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
				168.571	179.95	177.746	178.439	181.508	193.651
				T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
	231 homocysteine	C00155	HMDB00742	0.262199	0.375152	0.738484	1.163485	0.992255	0.281478
	1585 homostachydrine*	C08283		1.288188	1.026078	1.179888	1.013992	0.950084	1.155035
	206 hydroxyisovaleroyl carnitine			0.724878	0.560873	0.745301	0.673846	0.719616	0.657910
	1098 hypoxanthine	C00262	HMDB00157	0.097602	0.112866	0.430679	1.318815	2.170569	0.121817
	1101 inosine 5'-monophosphate (IMP)	C00130	HMDB00175	0.377696	0.646349	0.924064	0.598793	0.655219	0.258697
	Isobar: fructose 1,6-diphosphate, glucose 1,6-								
	527 diphosphate, myo-inositol 1,4 or 1,3-diphosphate			1.302519	1.218696	1.200162	0.988566	1.116699	5.111154
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate			0.995202	1.301341	0.617255	1.004798	0.494205	4.960977
	496 Isobar: sorbitol, mannitol	C00392_C0172	HMDB00247	1.054596	0.864582	1.083342	1.049648	0.908134	0.967651
	200 isobutyrylcarnitine			1.162361	0.961702	0.975136	0.902758	0.844705	1.106286
	180 isoleucine	C00407	HMDB00172	0.987145	0.794828	0.999866	0.997684	0.979558	0.917794
	478 isomaltose	C00252	HMDB02923	1.211123	0.783606	1.193456	0.998921	0.795175	0.705296
	205 isovalerylcarnitine		HMDB00688	0.957936	0.743246	0.925570	0.903648	1.195788	0.896412
	144 kynurenine	C00328	HMDB00684	0.929605	0.825327	1.077796	1.036477	0.788213	0.979446
	536 lactate	C00186	HMDB00190	0.184047	0.503474	0.921057	1.116432	1.160568	0.223943
	1018 lathosterol	C01189	HMDB01170	1.020373	1.053193	1.504318	0.994947	0.965564	0.808696
	625 laurate (12:0)	C02679	HMDB00638	0.924744	1.004352	1.058769	1.097257	1.170584	0.873382
	181 leucine	C00123	HMDB00687	0.903947	0.780766	0.928915	0.995498	0.979677	0.818525
	604 linoleate (18:2n6)	C01595	HMDB00673	0.661104	0.997258	0.698140	0.785193	1.275626	0.614669
	608 linolenate [alpha or gamma; (18:3n3 or 6)]	C06427	HMDB01388	0.829378	1.153856	0.922793	0.898516	1.253571	0.859021
	69 lysine	C00047	HMDB00182	0.858728	0.927582	0.968109	1.543772	0.699000	0.692248
	598 malate	C00149	HMDB00156	0.509580	0.674466	0.693725	0.748274	0.831729	0.399579
	482 maltose	C00208	HMDB00163	1.046492	0.857338	1.018061	1.008771	0.872358	0.833263
	487 mannose	C00159	HMDB00169	1.205248	0.960470	1.022661	1.056647	0.941239	0.969336
	489 mannose-6-phosphate	C00275	HMDB01078	0.974867	1.156702	1.150395	0.925892	0.846344	0.465820
	635 margarate (17:0)		HMDB02259	0.676142	1.020723	1.034499	0.813727	1.223798	0.607831

PATHWAY			SAMPLE NAME	DARM-00001	DARM-00002	DARM-00003	DARM-00004	DARM-00005	DARM-00006
SORTORDER BIOCHEMICAL NAME			CLIENT IDENTIFIER	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2
KEGG			SAMPLE ID	997731	997714	997743	997745	997721	997727
			PARENT SAMPLE ID	991346	991347	991348	991349	991350	991351
			ACTUAL	NHSCi 2003 T2	NHSCi 2003	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003
			UNIT	D0	T2 D7	D14	D21	D28	T1 D0
			COND DAY	2003	2003	2003	2003	2003	2003
			BRADFORD PROTEIN	T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
			Group HMDB	168.571	179.95	177.746	178.439	181.508	193.651
				T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
658	mead acid (20:3n9)		HMDB10378	0.982527	1.217503	0.593670	0.703125	2.025167	1.028821
225	methionine	C00073	HMDB00696	1.507191	1.001162	0.998838	0.745071	0.681953	1.412109
890	myo-inositol	C00137	HMDB00211	0.837540	0.810258	0.999258	0.918080	0.721814	0.839143
629	myristate (14:0)	C06424	HMDB00806	0.566010	1.030228	1.161382	0.963253	1.151818	0.459958
630	myristoleate (14:1n5)	C08322	HMDB02000	0.625324	0.658534	0.493142	0.572631	1.380087	0.493142
1242.1	N1-Methyl-2-pyridone-5-carboxamide	C05842	HMDB04193	1.564949	1.428541	1.499827	1.002102	1.075192	1.136819
75	N-6-trimethyllysine			0.660943	0.585348	0.822405	0.705275	0.566193	0.487751
4	N-acetylglycine		HMDB00532	1.175280	0.811402	1.542740	1.046386	0.686973	0.942530
227	N-acetylmethionine	C02712	HMDB11745	0.800527	0.903428	0.800527	0.800527	0.832440	0.959118
455	N-acetylneuraminic acid	C00270	HMDB00230	0.357287	0.538860	0.978609	1.308516	0.936821	0.454634
1221	nicotinamide	C00153	HMDB01406	0.938633	0.969041	1.091274	1.309828	0.970032	0.853524
1224	nicotinamide adenine dinucleotide (NAD+)	C00003	HMDB00902	1.075162	0.847859	1.002085	2.084172	0.967308	1.302876
825	octanoylcarnitine			0.849712	0.775525	0.952219	0.981920	0.921344	0.653453
639	oleate (18:1n9)	C00712	HMDB00207	0.714866	0.960577	0.673818	0.930919	0.924696	0.621447
835	oleoylcarnitine		HMDB05065	0.111343	0.103863	0.127639	1.159799	0.495649	0.072123
285	ophthalmate		HMDB05765	2.351470	0.412000	0.252181	0.252181	0.252181	2.213700
244	ornithine	C00077	HMDB03374	1.044312	0.973956	1.077857	1.075137	0.831313	0.846538
632	palmitate (16:0)	C00249	HMDB00220	0.731859	1.097799	0.929711	0.866888	1.214564	0.645327
633	palmitoleate (16:1n7)	C08362	HMDB03229	0.746184	1.082150	0.814432	0.771888	1.206358	0.662766
1004	palmitoyl sphingomyelin			1.009978	0.864505	0.988393	0.996593	0.873151	0.810514
833	palmitoylcarnitine			0.138978	0.059115	0.189457	1.064403	0.519661	0.177110
1243	pantothenate	C00864	HMDB00210	1.016767	0.897232	0.956114	0.869183	0.899775	0.885358
1613	paraxanthine	C13747	HMDB01860	1.061880	0.851574	1.126766	1.157693	0.944562	0.920510
88	p-cresol sulfate	C01468		1.418439	1.199775	1.288073	1.182466	1.271776	1.204341
621	pelargonate (9:0)	C01601	HMDB00847	0.601400	0.968215	1.817404	1.196536	1.274407	0.696637
631	pentadecanoate (15:0)	C16537	HMDB00826	0.765394	1.116842	1.018417	0.960782	1.283807	0.646841
135	phenol sulfate	C02180		1.194608	1.062706	1.078474	0.990487	0.960798	1.065396
128	phenylacetylglutamine	C05597	HMDB06344	1.447771	1.224528	1.323932	1.434381	1.291844	1.190817
83	phenylalanine	C00079	HMDB00159	0.984373	0.855271	1.137403	1.113927	1.009291	0.897514
602	phosphate	C00009	HMDB01429	0.960793	0.920399	1.138694	1.133536	1.040180	0.668616
534	phosphoenolpyruvate (PEP)	C00074	HMDB00263	4.317937	1.447414	0.490799	0.200344	0.336918	4.201588
877	phosphoethanolamine	C00346	HMDB00224	1.074507	0.875807	1.225685	0.593700	0.786465	1.080196

PATHWAY	SORTORDER	BIOCHEMICAL NAME	KEGG	SAMPLE NAME CLIENT IDENTIFIER SAMPLE ID PARENT SAMPLE ID ACTUAL UNIT COND DAY BRADFORD PROTEIN	DARM-00001	DARM-00002	DARM-00003	DARM-00004	DARM-00005	DARM-00006
					NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T1
			Group HMDB		997731	997714	997743	997745	997721	997727
					991346	991347	991348	991349	991350	991351
					NHSCi 2003 T2	NHSCi 2003	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003
					D0	T2 D7	D14	D21	D28	T1 D0
					2003	2003	2003	2003	2003	2003
					T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
					168.571	179.95	177.746	178.439	181.508	193.651
					T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
	74	pipecolate	C00408	HMDB00070	1.102910	0.889577	0.822084	1.139414	0.897131	0.781710
	1531	piperine	C03882		1.071879	1.101751	0.655875	0.834467	0.708170	0.919699
	246	proline	C00148	HMDB00162	0.915947	1.028549	0.939995	0.915745	1.005936	0.795303
	809	propionylcarnitine	C03017	HMDB00824	0.998129	0.797025	0.812016	0.676241	0.714173	0.811286
	1181	pseudouridine	C02067	HMDB00767	1.581253	1.282899	1.098750	0.982422	1.162511	0.761125
	45	pyroglutamine*			0.737929	0.547121	0.420202	0.448679	0.439148	0.374612
	603	pyrophosphate (PPi)	C00013	HMDB00250	1.962899	1.222331	1.303311	1.020032	0.385049	1.594598
	535	pyruvate	C00022	HMDB00243	1.118042	1.969399	2.094208	0.810124	0.505324	0.056113
	1469	ranitidine	D00422	HMDB01930	1.036527	0.947381	0.948476	0.866407	1.039385	0.879676
	548	ribitol	C00474	HMDB00508	0.877273	0.711653	1.151194	0.741076	1.118788	0.798867
	557	ribose 5-phosphate	C00117	HMDB00618	1.367338	1.252771	0.933570	0.814745	0.672063	2.233142
	559	ribulose	C00309	HMDB00621,HMDB03371	0.838750	0.240496	0.895948	1.227931	0.240496	1.386884
	224	S-adenosylhomocysteine (SAH)	C00021	HMDB00939	0.722516	0.933287	1.079622	0.889291	1.162824	0.618320
	551	sedoheptulose-7-phosphate	C05382	HMDB01068	1.205791	0.370716	2.626636	1.788112	0.461430	0.074096
	8	serine	C00065	HMDB03406	0.897376	0.826694	0.933398	0.972309	0.894736	0.740037
	216	S-methylcysteine		HMDB02108	1.546979	1.514817	1.615735	1.747664	1.551145	1.112397
	281	S-methylglutathione	C11347		1.405068	0.824551	0.931198	1.286469	0.997110	1.238279
	270	spermidine	C00315	HMDB01257	0.779236	0.685966	0.903530	0.851891	0.852453	0.671940
	1584	stachydrine	C10172	HMDB04827	0.120808	0.078570	0.119219	0.126803	0.132770	0.112926
	637	stearate (18:0)	C01530	HMDB00827	0.713078	1.129057	0.998799	0.875504	1.219120	0.621096
	1005	stearoyl sphingomyelin	C00550	HMDB01348	1.277456	0.910619	0.973538	1.056922	1.077678	0.872663
	834	stearoylcarnitine		HMDB00848	0.056108	0.056108	0.217910	1.000000	0.481530	0.056108
	591	succinylcarnitine			0.711793	0.675913	0.753938	0.736396	0.814040	0.610032
	1662	terephthalic acid	C06337	HMDB02428	0.915167	0.570385	0.624059	0.686443	0.631354	0.559301
	1614	theobromine	C07480	HMDB02825	1.350359	1.111060	1.426622	1.053549	1.151325	1.199873
	1615	theophylline	C07130	HMDB01889	1.171008	1.650268	1.072864	0.617853	0.957177	1.036258
	549	threitol	C16884	HMDB04136	0.956725	0.969312	1.242202	1.281014	1.140570	0.888563
	1199	threonate	C01620	HMDB00943	1.069841	0.883127	1.058853	0.951108	1.015710	0.710274
	17	threonine	C00188	HMDB00167	0.908850	0.834363	0.872882	0.864093	0.942662	0.772937
	252	trans-4-hydroxyproline	C01157	HMDB00725	1.248799	1.083158	1.092664	1.275759	1.098446	1.147332

PATHWAY SORTORDER	BIOCHEMICAL NAME	KEGG	Group HMDB	SAMPLE NAME	DARM-00001	DARM-00002	DARM-00003	DARM-00004	DARM-00005	DARM-00006
				CLIENT IDENTIFIER	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2 D	NHSCi 2003 T2 I	NHSCi 2003 T2 C	NHSCi 2003 T1
				SAMPLE ID	997731	997714	997743	997745	997721	997727
				PARENT SAMPLE ID	991346	991347	991348	991349	991350	991351
				ACTUAL	NHSCi 2003 T2	NHSCi 2003	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003 T2	NHSCi 2003
				UNIT	D0	T2 D7	D14	D21	D28	T1 D0
				COND DAY	2003	2003	2003	2003	2003	2003
				BRADFORD PROTEIN	T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
					168.571	179.95	177.746	178.439	181.508	193.651
					T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0
501	trehalose	C01083	HMDB00975		0.108147	0.610965	1.012624	1.338255	1.046230	0.104490
1242	trigonelline (N'-methylnicotinate)		HMDB00875		0.711049	0.623862	0.645081	0.663676	0.636632	0.647216
145	tryptophan	C00078	HMDB00929		1.031677	0.788144	1.074157	1.014829	0.943093	0.835153
151	tryptophan betaine	C09213			0.562156	0.508877	0.532573	0.496551	0.519666	0.491686
99	tyrosine	C00082	HMDB00158		0.869281	0.713008	0.991781	0.926936	0.952006	0.804564
1149	urate	C00366	HMDB00289		1.110170	1.013792	0.972913	0.874034	1.018883	1.003583
245	urea	C00086	HMDB00294		1.147243	0.896619	1.154535	1.091534	1.008057	0.943828
1180	uridine	C00299	HMDB00296		0.424213	0.632935	0.685118	0.767251	1.012166	0.640234
190	valine	C00183	HMDB00883		0.932442	0.820464	1.000926	0.940639	0.923756	0.870393
565	xylitol	C00379	HMDB00568		0.127693	0.127693	0.127693	0.127693	0.127693	0.127693
570	xylonate	C00502,C05411			0.763576	0.711723	1.095722	0.987384	1.346684	1.242916
569	xylose	C00181	HMDB00098		1.034657	0.405368	0.513480	0.708854	0.895573	0.405368

PATHWAY	SORTORDER	BIOCHEMICAL NAME	DARM-00007	DARM-00008	DARM-00009	DARM-00010	DARM-00011	DARM-00012	DARM-00013	DARM-00014	DARM-00015
			NHSCi 2003 T1 997730	NHSCi 2003 T1 997747	NHSCi 2003 T1 997713	NHSCi 2003 T1 997751	NHSCi 2003 C 997716	NHSCi 2003 C 997752	NHSCi 2003 C 997719	NHSCi 2003 C 997724	NHSCi 2003 C 997729
			991352	991353	991354	991355	991356	991357	991358	991359	991360
			NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28	NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21	NHSCi 2003 C D28
			164.122	167.3	157.075	174.895	193.847	179.605	175.15	167.535	175.121
			T1 D7	T1 D14	T1 D21	T1 D28	C D0	C D7	C D14	C D21	C D28
		905 1,2-propanediol	0.579393	0.881442	1.419568	1.047499	0.071779	0.575987	1.250987	1.276408	1.584491
		532 1,3-dihydroxyacetone	1.005572	1.295784	1.681924	1.351797	1.032546	1.019166	1.076962	0.931657	0.894764
		515 1,5-anhydroglucitol (1,5-AG)	1.222268	0.995142	1.772193	0.905907	0.939960	1.191738	1.611112	1.080594	1.318376
		523 1,6-anhydroglucose	1.307081	1.303914	1.421176	0.985249	1.515766	0.938190	1.525099	1.005262	1.176818
		636 10-heptadecenoate (17:1n7)	1.011971	0.988029	1.229869	0.837718	0.528442	0.673333	0.775389	1.304893	1.228168
		742 13-methylmyristic acid	0.956273	1.215136	1.490650	1.156663	0.509429	0.889129	1.082770	1.589390	1.395014
		744 15-methylpalmitate (isobar with 2-	0.844457	1.103403	1.382409	0.940191	0.479921	0.760123	1.123751	1.434375	1.459824
		919 1-arachidonoylglycerophosphoethanolamine*	1.049916	1.087377	1.555467	0.769220	1.983977	0.986731	1.217806	0.958717	0.771485
		938 1-linoleoylglycerophosphocholine	0.967220	0.999949	2.227720	0.865688	1.499100	0.934622	1.310714	1.121451	0.950420
		926 1-myristoylglycerophosphocholine	0.417624	2.906419	2.670861	5.384758	0.416175	0.653119	0.789458	1.000000	1.522096
		936 1-oleoylglycerophosphocholine	0.544009	1.726474	2.647978	4.037094	0.065166	0.231035	0.749125	1.000000	1.798584
		915 1-oleoylglycerophosphoethanolamine	1.339954	0.322900	1.875242	0.580694	1.350258	1.229704	1.343753	1.298771	0.879791
		970 1-palmitoylglycerol (1-monopalmitin)	0.829122	1.253203	0.977707	1.119067	0.916368	1.889740	0.672489	0.949738	0.829713
		929 1-palmitoylglycerophosphocholine	0.630176	1.556422	2.942561	3.136941	0.083969	0.250438	0.862993	1.152353	2.071989
		909 1-palmitoylglycerophosphoethanolamine	1.204767	0.843694	2.424624	0.931373	2.389639	1.260441	1.505796	1.279065	1.265982
		934 1-stearoylglycerophosphocholine	0.473487	2.894309	2.215544	4.321889	0.091058	0.296757	0.689606	1.011835	1.583255
		533 2,3-diphosphoglycerate	4.972904	3.857553	2.788181	0.746330	2.814633	1.589136	0.482986	0.151241	0.155468
		263 2-aminobutyrate	0.753116	0.750416	1.001038	0.748359	0.659673	0.681075	0.863260	0.683240	0.748353
		945 2-arachidonoylglycerophosphocholine*	0.432689	2.601587	1.158283	4.677377	0.185345	0.359102	0.344467	0.546725	1.114457
		920 2-arachidonoylglycerophosphoethanolamine*	0.361928	2.168727	1.141330	2.855072	0.060242	0.424004	0.288778	0.554670	1.112031
		923 2-docosahexaenoylglycerophosphoethanolamine*	0.475139	2.511314	1.644739	3.717151	0.095479	0.257399	0.363824	0.614259	1.123485
		922 2-docosapentaenoylglycerophosphoethanolamine*	0.525743	2.345279	1.100081	2.505825	0.089145	0.178370	0.293410	0.514275	1.054004
		1360 2-ethylhexanoate (isobar with 2-propylpentanoate)	1.474724	1.173821	1.084554	0.500813	1.516810	1.212806	1.074970	1.491817	0.909125
		229 2-hydroxybutyrate (AHB)	0.978164	0.924134	1.223178	0.826119	0.836621	0.844041	1.039988	0.963358	0.906011
		714 2-hydroxyglutarate	1.006550	0.980514	1.675851	1.358799	0.423536	0.731857	0.903798	0.905771	0.942990
		706 2-hydroxypalmitate	0.898758	1.032398	2.810047	0.972744	1.280125	0.891865	1.796636	1.076808	0.985628
		939 2-linoleoylglycerophosphocholine*	0.229996	1.856319	0.855317	2.430508	0.229996	0.229996	0.229996	0.743047	1.114907
		202 2-methylbutyrylcarnitine	0.879397	0.547851	1.138514	0.723311	1.025134	0.990521	1.124479	0.883279	1.063017
		937 2-oleoylglycerophosphocholine*	0.327408	1.306436	1.338380	2.664556	0.191712	0.268938	0.565977	0.692410	1.011297
		930 2-palmitoylglycerophosphocholine*	0.368877	2.858268	1.790289	4.241271	0.096665	0.336862	0.531351	0.878770	1.318114

	DARM-00007	DARM-00008	DARM-00009	DARM-00010	DARM-00011	DARM-00012	DARM-00013	DARM-00014	DARM-00015		
	NHSci 2003 T1	NHSci 2003 T1	NHSci 2003 T1	NHSci 2003 T1	NHSci 2003 C	NHSci 2003 C	NHSci 2003 C	NHSci 2003 C	NHSci 2003 C		
	997730	997747	997713	997751	997716	997752	997719	997724	997729		
	991352	991353	991354	991355	991356	991357	991358	991359	991360		
	NHSci 2003 T1 D7	NHSci 2003 T1 D14	NHSci 2003 T1 D21	NHSci 2003 T1 D28	NHSci 2003 C D0	NHSci 2003 C D7	NHSci 2003 C D14	NHSci 2003 C D21	NHSci 2003 C D28		
	2003	2003	2003	2003	2003	2003	2003	2003	2003		
	T1 D7	T1 D14	T1 D21	T1 D28	C D0	C D7	C D14	C D21	C D28		
	164.122	167.3	157.075	174.895	193.847	179.605	175.15	167.535	175.121		
PATHWAY	T1 D7	T1 D14	T1 D21	T1 D28	C D0	C D7	C D14	C D21	C D28		
SORTORDER	BIOCHEMICAL NAME										
	935	2-stearoylglycerophosphocholine*	0.471137	1.976910	1.093197	2.881800	0.142354	0.299380	0.722596	0.957433	0.948414
	821	3-dehydrocarnitine*	1.055172	1.000176	1.250741	0.997144	0.796472	0.911967	1.030189	1.124612	1.107199
	170	3-indoxyl sulfate	1.420325	1.657545	1.671193	1.254928	1.206457	1.458274	1.541009	1.428152	1.320807
	172	3-methyl-2-oxobutyrate	0.293280	0.167871	0.244905	0.346274	1.105296	0.910051	1.327576	1.814206	1.062547
	173	3-methyl-2-oxovalerate	0.451490	0.238624	0.300670	0.236934	0.759330	1.084110	1.375263	1.448203	1.193437
	529	3-phosphoglycerate	3.402536	2.645908	1.485946	0.728350	2.176234	1.217779	1.221862	0.810977	0.737985
	193	4-methyl-2-oxopentanoate	0.460909	0.204575	0.327624	0.237775	0.740158	1.042256	1.272712	1.433275	1.022380
	266	5-methylthioadenosine (MTA)	1.044263	1.367122	1.254916	1.073550	0.289004	0.884631	0.934973	1.010000	0.990048
	282	5-oxoproline	0.903885	1.130063	1.852311	1.589864	0.153183	0.524589	0.911681	1.281875	1.509526
	545	6-phosphogluconate	1.289458	1.682037	2.413830	0.698603	2.909097	1.828352	1.409448	1.182087	0.613797
	1024	7-beta-hydroxycholesterol	0.908477	0.900005	1.996547	1.666871	0.733866	0.634096	1.241881	0.363094	0.549513
	712.5	9,10-epoxyoctadec-12(Z)-enoic acid	0.620291	1.116898	1.099395	1.044109	0.059289	0.820655	1.167316	1.585194	1.774989
	672	9,10-epoxystearate	0.817853	1.128281	1.628748	1.142459	0.019994	0.941708	1.716095	1.773805	1.952782
	822	acetylcarnitine	1.091882	0.909807	0.964254	0.724809	0.946984	0.896049	0.929458	0.946289	0.893631
	601	acetylphosphate	1.017109	0.933835	1.206181	0.875451	0.973251	1.033379	1.039707	0.884315	0.966967
	1105	adenine	1.329642	1.071167	1.069334	0.661232	1.236276	1.089694	1.055918	1.049744	0.983020
	1106	adenosine	1.758681	2.207580	2.464180	1.965764	1.074284	0.449049	1.793924	1.000000	0.958277
	1116	adenosine 5'-diphosphate (ADP)	0.990240	0.624122	1.070870	0.621436	1.058138	0.944544	1.303938	1.253567	1.055236
	1232	adenosine 5'diphosphoribose	1.386847	1.293181	1.343267	1.006366	0.964464	1.119353	1.176824	1.169441	1.089694
	1114	adenosine 5'-monophosphate (AMP)	0.831653	0.438269	1.438381	0.813095	0.644259	0.488595	1.187881	1.406723	1.413759
	665	adrenate (22:4n6)	1.927933	0.563093	0.984966	0.739127	3.200191	0.942035	1.083620	0.699444	0.414703
	27	alanine	0.874770	0.865188	1.228132	0.900917	0.804196	0.921620	1.192023	1.067891	1.089891
	1150	allantoin	0.712057	0.732183	1.734449	0.522087	0.654238	0.967530	0.603014	2.550497	1.724930
	179	alpha-hydroxyisocaproate	0.591520	0.792749	1.336782	1.127870	0.292412	0.292412	0.620039	1.000000	1.270675
	198	alpha-hydroxyisovalerate	2.172116	2.928365	4.530204	3.381998	0.682432	0.723870	1.063730	1.261846	1.557535
	1266	alpha-tocopherol	1.030627	1.511835	2.217995	1.259954	1.665669	1.472035	1.655861	1.189218	1.212788
	1034	androsterone sulfate	0.831395	0.651221	1.000000	0.931093	0.757549	0.737739	0.881977	0.651221	0.734964
	566	arabinose	1.413825	1.258201	1.695844	1.021267	1.066718	0.859743	1.447614	0.940975	0.996570
	546	arabitol	1.539209	1.391375	1.864823	1.393495	0.974765	0.837934	1.287182	1.001865	1.143131
	1202	arabonate	1.147734	1.072461	1.897569	0.865369	1.037720	0.990561	1.404891	1.117087	1.216873
	659	arachidonate (20:4n6)	1.078842	0.868424	1.594571	1.230408	0.575088	0.657857	0.789758	1.351396	1.234454
	241	arginine	1.171490	0.944364	1.266545	1.032011	0.614042	0.726880	0.769043	1.955988	1.330952
	25	asparagine	0.946659	0.915279	1.176999	0.845391	1.007246	0.935787	1.024919	0.829923	0.769433
	24	aspartate	1.512632	1.584129	2.131539	1.538915	1.155653	1.341798	1.469940	1.375295	1.429742

	DARM-00007	DARM-00008	DARM-00009	DARM-00010	DARM-00011	DARM-00012	DARM-00013	DARM-00014	DARM-00015
	NHSCi 2003 T1	NHSCi 2003 T1	NHSCi 2003 T1	NHSCi 2003 T1	NHSCi 2003 C	NHSCi 2003 C	NHSCi 2003 C	NHSCi 2003 C	NHSCi 2003 C
	997730	997747	997713	997751	997716	997752	997719	997724	997729
	991352	991353	991354	991355	991356	991357	991358	991359	991360
	NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28	NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21	NHSCi 2003 C D28
	2003 T1 D7	2003 T1 D14	2003 T1 D21	2003 T1 D28	2003 C D0	2003 C D7	2003 C D14	2003 C D21	2003 C D28
	164.122	167.3	157.075	174.895	193.847	179.605	175.15	167.535	175.121
PATHWAY	T1 D7	T1 D14	T1 D21	T1 D28	C D0	C D7	C D14	C D21	C D28
SORTORDER									
BIOCHEMICAL NAME									
721 azelate (nonanedioate)	0.682096	1.173113	1.756285	1.817451	0.190083	0.717680	1.690070	1.879211	2.461886
26 beta-alanine	0.584413	0.726402	1.197563	0.933910	1.128265	1.048528	1.217643	0.504833	0.910647
7 beta-hydroxypyruvate	1.180178	1.086433	1.258438	0.896935	1.021749	0.976858	0.997250	1.121654	1.014890
22 betaine	0.933130	0.930214	1.009451	0.926170	0.725891	0.814577	0.820209	0.924074	0.915200
1057 beta-sitosterol	0.349092	1.164945	1.121738	0.652741	0.349092	0.716141	1.176649	0.754626	0.349092
1216 biliverdin	0.782550	2.307864	1.006988	2.029219	0.522259	0.657488	0.522259	0.635626	0.621075
811 butyrylcarnitine	1.203692	0.598389	1.228647	0.598389	0.956265	0.598389	0.598389	0.827407	1.000000
1612 caffeine	0.960238	0.881993	1.128266	0.882947	0.837952	0.822464	0.970600	0.997440	0.808305
1059 campesterol	0.469755	0.586117	0.906641	0.469755	0.469755	0.744554	0.469755	0.469755	1.265312
622 caprate (10:0)	1.087416	1.119543	1.400746	1.055108	0.476975	1.014052	1.303035	1.349362	1.262328
618 caproate (6:0)	1.633891	1.100260	1.165496	0.499007	1.991645	1.327569	1.130823	0.942546	1.104893
620 caprylate (8:0)	1.270852	1.623069	1.331362	0.724652	0.995056	0.821415	1.004944	1.265117	0.902349
820 carnitine	0.995475	0.987856	0.962887	0.897424	0.706026	0.879879	0.915177	0.936674	0.768970
1300 catechol sulfate	1.085504	1.060961	1.227196	1.095614	0.929375	1.004334	1.121036	1.130126	1.033844
164 C-glycosyltryptophan*	1.011477	0.789510	0.795434	0.963034	0.843278	1.097891	0.932025	1.096081	1.323800
1020 cholesterol	0.978604	1.048014	1.370470	1.082235	1.001777	0.998223	1.247736	0.993343	0.991372
881 choline	0.691654	0.609501	0.750462	0.608133	0.430366	0.501531	0.601986	0.633683	0.609711
582 cis-aconitate	1.056201	1.058446	1.429106	1.146542	0.581969	0.761887	1.021169	0.963262	0.734217
641 cis-vaccenate (18:1n7)	0.457371	0.457371	1.505220	1.198338	0.457371	0.457371	0.921005	1.067164	0.770131
579 citrate	1.310357	1.181393	1.364750	0.740486	1.378132	1.256253	1.341661	1.039516	0.965796
248 citrulline	1.207663	1.190028	1.318900	1.331753	1.000152	1.153451	1.195213	1.259432	1.224716
259 creatine	0.966578	0.942507	1.038412	0.884712	0.829310	0.879152	0.977144	0.992343	0.947804
260 creatinine	0.738254	1.000503	1.120363	0.989907	0.882203	0.692257	1.007683	1.008304	0.957200
213 cysteine	0.602932	0.935122	1.994629	1.367534	0.733679	0.953093	1.009224	1.500656	1.694589
819 deoxycarnitine	0.970031	1.021189	1.130594	0.852577	0.803635	0.737519	0.875669	1.129388	0.954943
655 dihomo-linoleate (20:2n6)	0.982251	0.835159	1.341311	0.905149	0.424406	0.557018	0.673731	0.806718	1.011501
609 dihomo-linolenate (20:3n3 or n6)	1.187674	0.992377	1.763481	1.283382	0.724500	0.557375	1.007623	1.480575	1.276248
531 dihydroxyacetone phosphate (DHAP)	61.998871	12.050069	2.816575	1.000000	1.863458	0.244270	3.489914	0.239333	0.239333
3 dimethylglycine	0.986748	1.110931	0.961913	0.620077	0.801518	0.620077	0.881063	1.138150	1.097819
613 docosaehaenoate (DHA; 22:6n3)	1.078151	1.029647	1.572826	1.358235	0.388047	0.691914	0.685331	1.267066	1.159887
611 docosapentaenoate (n3 DPA; 22:5n3)	0.761750	0.892547	1.224149	1.051463	0.319733	0.545656	0.612659	1.247338	1.233746
610 eicosapentaenoate (EPA; 20:5n3)	1.369553	1.123308	1.431160	1.424403	0.545071	0.846059	0.777166	1.513239	1.573361

PATHWAY	SORTORDER	BIOCHEMICAL NAME	DARM-00007	DARM-00008	DARM-00009	DARM-00010	DARM-00011	DARM-00012	DARM-00013	DARM-00014	DARM-00015
			NHSCi 2003 T1	NHSCi 2003 T1	NHSCi 2003 T1	NHSCi 2003 T1	NHSCi 2003 C	NHSCi 2003 C	NHSCi 2003 C	NHSCi 2003 C	NHSCi 2003 C
			997730	997747	997713	997751	997716	997752	997719	997724	997729
			991352	991353	991354	991355	991356	991357	991358	991359	991360
			NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28	NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21	NHSCi 2003 C D28
			164.122	167.3	157.075	174.895	193.847	179.605	175.15	167.535	175.121
			T1 D7	T1 D14	T1 D21	T1 D28	C D0	C D7	C D14	C D21	C D28
	1565	ergothioneine	0.784646	0.681988	0.930600	0.684874	0.748471	0.634154	0.838734	0.860915	0.792828
	735	erucamide	0.412254	2.102473	0.716545	2.860038	0.908987	0.928090	1.490537	0.412254	1.267889
	1632	erythritol	0.984345	1.551734	3.178189	2.935130	0.631139	0.802128	1.114394	1.307629	1.635783
	453	erythronate*	1.007852	1.635389	3.495116	2.871585	0.824411	0.784139	1.217158	1.052277	1.194033
	876	ethanolamine	0.976310	1.182276	2.139554	1.681976	0.661163	0.973013	1.535755	0.807254	1.055717
	472	fructose	0.719437	0.779202	1.531512	1.329779	0.894561	0.958225	1.221530	1.144651	1.227204
	524	fructose-6-phosphate	0.643762	1.364401	1.464315	1.058042	0.930426	0.980282	1.611722	1.461723	1.224940
	594	fumarate	0.965500	1.061970	2.073842	0.999520	0.745564	0.651111	0.989373	1.182925	1.089384
	404	gamma-glutamylleucine	1.218403	1.381743	1.188831	1.027585	0.861084	1.136177	1.043399	1.181348	0.799874
	521	glucose	1.048812	1.005284	1.222823	0.929519	0.996624	0.987327	1.111321	1.014258	1.000439
	519	glucose-6-phosphate (G6P)	0.140622	0.562362	1.400370	0.969094	0.837179	0.990735	1.573977	1.398377	1.309735
	39	glutamate	0.994535	0.925599	1.150250	0.837136	1.005465	0.785885	1.022085	0.862060	0.841797
	44	glutamine	1.062813	0.908735	0.717282	0.661240	1.201115	1.163193	0.999759	0.961272	0.854713
	80	glutaroyl carnitine	0.561030	1.301558	1.209044	0.561030	0.561030	0.922433	0.691707	1.329358	1.087081
	283	glutathione, oxidized (GSSG)	1.210616	0.898062	0.876079	0.715041	1.242828	1.251761	1.035441	0.956983	0.763271
	280	glutathione, reduced (GSH)	1.103042	1.039986	0.753175	0.694965	0.895697	1.136946	1.047623	1.055621	0.942391
	517	glycerate	1.976392	3.643052	6.423595	5.463784	0.422712	0.776177	1.414852	1.108956	1.519593
	882	glycerol 3-phosphate (G3P)	5.540604	2.917526	1.946988	0.946531	1.103204	0.916270	1.210546	0.963145	0.971072
	883	glycerophosphorylcholine (GPC)	0.919466	0.969202	1.144109	1.052735	1.002736	1.076543	0.981281	1.007094	1.041677
	1	glycine	0.865601	0.925101	1.455365	1.246472	0.659939	0.797561	1.123916	1.310987	1.416995
	851	glycochenodeoxycholate	0.352703	0.340697	0.475566	0.337836	0.397406	0.293892	0.355274	0.415514	0.334810
	840	glycocholate	0.104984	0.079564	0.079564	0.132460	0.101017	0.079564	0.161401	0.094308	0.143415
	849	glycodeoxycholate	0.199279	0.376987	0.516980	0.199279	0.229346	0.199279	0.199279	0.199279	0.241004
	1318	glycolate (hydroxyacetate)	1.143183	0.932388	1.545152	1.094163	1.017811	1.176863	1.315408	1.107036	1.005904
	1128	guanosine	1.588398	1.145170	1.507297	0.848515	0.930315	1.052615	1.188748	1.185284	1.229062
	1212	heme*	1.148632	6.165361	1.599098	5.047463	0.287670	0.917822	0.592773	0.874613	1.271888
	619	heptanoate (7:0)	1.422851	1.433715	1.426777	0.665563	0.963924	1.378515	1.445243	1.175058	1.431199
	823	hexanoylcarnitine	0.951152	1.008683	1.862362	1.699812	1.812086	0.991317	0.968976	1.276598	1.563901
	1288	hippurate	1.130380	1.090314	1.336800	1.034929	0.886504	1.146026	1.072708	1.272584	0.983966
	50	histidine	0.891287	0.880880	1.415637	1.104108	0.877838	0.904200	0.869724	0.995801	0.929091

PATHWAY SORTORDER	BIOCHEMICAL NAME	DARM-00007	DARM-00008	DARM-00009	DARM-00010	DARM-00011	DARM-00012	DARM-00013	DARM-00014	DARM-00015
		NHSCi 2003 T1 997730 991352 NHSCi 2003 T1 D7 2003 T1 D7 164.122	NHSCi 2003 T1 997747 991353 NHSCi 2003 T1 D14 2003 T1 D14 167.3	NHSCi 2003 T1 997713 991354 NHSCi 2003 T1 D21 2003 T1 D21 157.075	NHSCi 2003 T1 997751 991355 NHSCi 2003 T1 D28 2003 T1 D28 174.895	NHSCi 2003 C 997716 991356 NHSCi 2003 C D0 2003 C D0 193.847	NHSCi 2003 C 997752 991357 NHSCi 2003 C D7 2003 C D7 179.605	NHSCi 2003 C 997719 991358 NHSCi 2003 C D14 2003 C D14 175.15	NHSCi 2003 C 997724 991359 NHSCi 2003 C D21 2003 C D21 167.535	NHSCi 2003 C 997729 991360 NHSCi 2003 C D28 2003 C D28 175.121
	231 homocysteine	0.531360	1.113115	2.373456	1.230925	0.544237	0.958724	0.870555	1.407857	1.580528
	1585 homostachydrine*	0.892755	1.401618	1.181822	1.244467	1.039424	1.012518	1.063810	1.017809	1.076011
	206 hydroxyisovaleroyl carnitine	0.761654	0.751571	0.863157	0.695321	0.569766	0.671646	0.784426	0.781351	0.720861
	1098 hypoxanthine	8.710523	8.865033	12.587374	9.000891	0.118663	0.158800	0.565500	1.116442	2.102075
	1101 inosine 5'-monophosphate (IMP) Isobar: fructose 1,6-diphosphate, glucose 1,6-	0.585711	1.075936	1.666630	1.269351	0.385234	0.707626	1.197135	0.697176	0.732847
	527 diphosphate, myo-inositol 1,4 or 1,3-diphosphate	8.921129	1.625642	0.865789	0.634155	0.926316	0.971366	1.139995	1.132752	1.033888
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate	4.962746	3.550338	1.022636	0.473306	1.869620	0.901465	1.651282	1.150333	1.043849
	496 Isobar: sorbitol, mannitol	1.120801	1.095420	1.038581	1.001462	0.858118	0.967834	1.012471	1.017625	0.955391
	200 isobutyrylcarnitine	1.047961	0.812636	1.089850	0.787524	1.055922	0.946395	0.852655	1.035817	0.980266
	180 isoleucine	1.291392	1.314360	1.440793	1.236554	0.738711	0.942842	1.006689	1.000134	1.042637
	478 isomaltose	1.358876	1.035678	1.427767	0.946433	0.871907	0.708005	1.574571	1.115136	1.133606
	205 isovalerylcarnitine	1.011364	0.951183	1.125490	0.983029	0.896606	0.932978	1.153700	1.004909	1.079103
	144 kynurenine	1.231263	1.344747	1.025897	1.031093	0.916898	0.884145	0.938782	0.918975	0.974600
	536 lactate	0.851613	1.299007	2.068926	1.739866	0.155290	0.509587	1.032656	1.228308	1.408804
	1018 lathosterol	1.317971	1.082932	1.005054	1.496966	1.357080	1.039592	1.192467	0.907899	1.006601
	625 laurate (12:0)	1.056739	1.093264	1.121075	1.007549	0.741906	0.911178	0.708836	1.100290	1.058791
	181 leucine	1.126026	1.190173	1.415574	1.111550	0.697799	0.841679	0.969762	0.974177	0.995073
	604 linoleate (18:2n6)	0.875102	0.833887	1.453063	0.949924	0.433196	0.499054	0.711618	1.097591	1.002742
	608 linolenate [alpha or gamma; (18:3n3 or 6)]	1.027411	0.990711	1.283112	1.160607	0.398942	0.762193	0.712826	0.984146	1.224040
	69 lysine	0.883025	1.166988	1.472896	1.222188	0.790392	1.019320	1.750394	0.807935	0.465153
	598 malate	1.003502	1.280109	2.074823	1.149139	0.538331	0.655303	1.080320	0.990412	1.110855
	482 maltose	1.151323	1.047599	1.505097	0.913686	1.244239	0.890840	1.121392	0.991229	1.079321
	487 mannose	1.000892	0.992949	1.403258	0.957592	1.154808	1.146123	1.222383	1.070652	1.033415
	489 mannose-6-phosphate	0.696962	1.172594	1.886958	0.885715	0.909050	1.094161	1.671348	1.544267	1.239800
	635 margarate (17:0)	0.923266	1.135348	1.310010	0.788685	0.548332	0.700647	1.047673	1.081370	1.094870

PATHWAY SORTORDER	BIOCHEMICAL NAME	DARM-00007	DARM-00008	DARM-00009	DARM-00010	DARM-00011	DARM-00012	DARM-00013	DARM-00014	DARM-00015
		NHSCi 2003 T1 997730 991352 NHSCi 2003 T1 D7 2003 T1 D7 164.122	NHSCi 2003 T1 997747 991353 NHSCi 2003 T1 D14 2003 T1 D14 167.3	NHSCi 2003 T1 997713 991354 NHSCi 2003 T1 D21 2003 T1 D21 157.075	NHSCi 2003 T1 997751 991355 NHSCi 2003 T1 D28 2003 T1 D28 174.895	NHSCi 2003 C 997716 991356 NHSCi 2003 C D0 2003 C D0 193.847	NHSCi 2003 C 997752 991357 NHSCi 2003 C D7 2003 C D7 179.605	NHSCi 2003 C 997719 991358 NHSCi 2003 C D14 2003 C D14 175.15	NHSCi 2003 C 997724 991359 NHSCi 2003 C D21 2003 C D21 167.535	NHSCi 2003 C 997729 991360 NHSCi 2003 C D28 2003 C D28 175.121
		T1 D7	T1 D14	T1 D21	T1 D28	C D0	C D7	C D14	C D21	C D28
	658 mead acid (20:3n9)	1.333776	1.087334	1.439768	0.932462	1.099678	0.338017	1.068211	1.017473	1.586494
	225 methionine	1.236252	0.929883	0.811302	0.651478	1.160123	1.180169	0.871566	0.901873	0.687137
	890 myo-inositol	0.968812	1.005715	1.227931	0.956508	1.021586	1.003842	1.182792	0.867133	0.963764
	629 myristate (14:0)	0.914252	1.098585	1.397366	0.918903	0.504823	0.982336	1.142496	1.422700	1.173415
	630 myristoleate (14:1n5)	0.493142	0.801909	1.081880	0.943002	0.493142	0.493142	0.493142	1.792657	0.970121
	1242.1 N1-Methyl-2-pyridone-5-carboxamide	1.383300	1.750319	1.120382	1.061218	1.342540	1.482435	0.997898	1.324739	1.150634
	75 N-6-trimethyllysine	0.836252	0.728505	0.655402	0.783742	0.633017	0.957624	0.823612	0.761338	0.862918
	4 N-acetylglycine	1.610581	1.004149	1.678312	0.949968	1.557341	1.587705	1.364960	0.896347	0.584292
	227 N-acetylmethionine	0.800527	0.800527	1.080367	0.810114	0.934350	0.800527	0.892268	1.145774	1.130997
	455 N-acetylneuraminic acid	1.046157	0.896041	1.939640	1.942435	0.324105	0.700931	1.405333	1.089991	1.780015
	1221 nicotinamide	1.286544	0.957622	1.061303	1.181597	0.875045	0.869904	1.194063	1.526762	1.075616
	1224 nicotinamide adenine dinucleotide (NAD+)	1.731941	0.997915	0.985197	0.742747	0.722391	1.078624	0.856726	1.029014	0.637361
	825 octanoylcarnitine	0.783359	0.894006	1.209520	1.028082	0.599376	0.842428	0.880027	1.146807	1.000816
	639 oleate (18:1n9)	0.973637	1.482457	1.323943	0.994752	1.219680	0.938441	1.162406	0.979411	0.847502
	835 oleoylcarnitine	0.268949	2.834940	1.297484	4.715415	0.093963	0.269900	0.344264	0.505751	0.840201
	285 ophthalmate	1.000000	0.357655	0.252181	0.252181	1.508191	0.421720	0.252181	0.252181	0.252181
	244 ornithine	0.979060	1.057577	1.502068	1.109598	1.019818	1.069739	1.261234	0.891207	0.993771
	632 palmitate (16:0)	0.888735	1.072139	1.569051	0.951411	0.651755	0.773816	1.043567	1.081979	1.063466
	633 palmitoleate (16:1n7)	1.026919	1.052117	2.047386	0.979584	0.439121	0.832635	0.728747	1.156837	1.320546
	1004 palmitoyl sphingomyelin	1.005813	1.022249	1.443170	0.999408	1.002119	0.922277	1.278155	0.994232	1.032554
	833 palmitoylcarnitine	0.373139	2.170117	1.108468	4.325253	0.059115	0.263145	0.394131	0.597176	0.935597
	1243 pantothenate	1.002883	1.042906	1.313703	1.255659	0.981934	0.822225	1.198455	1.123216	1.117671
	1613 paraxanthine	1.092740	1.281806	1.135697	1.108726	0.775678	1.172639	1.077312	1.018185	1.005584
	88 p-cresol sulfate	1.329539	1.356562	1.700649	1.269245	1.238055	1.227651	1.449294	1.401530	1.285396
	621 pelargonate (9:0)	1.511461	1.540620	1.473003	0.888205	0.696694	1.152892	1.285336	1.031785	1.115217
	631 pentadecanoate (15:0)	0.955568	1.016540	1.401995	0.890441	0.614889	0.987654	0.988003	1.234391	0.996066
	135 phenol sulfate	1.054251	1.118233	1.165138	1.010064	0.952208	0.941851	1.171854	1.335752	0.989869
	128 phenylacetylglutamine	1.578694	1.452507	1.623517	1.225483	1.160408	1.250494	1.445612	1.491337	1.335129
	83 phenylalanine	1.162565	1.148260	1.187508	1.160993	0.751191	0.987472	1.048000	1.127775	1.134973
	602 phosphate	0.727684	0.751826	1.234300	1.003948	0.933507	0.996052	1.373690	1.201725	1.200027
	534 phosphoenolpyruvate (PEP)	3.894760	2.959487	2.072928	0.821136	3.050557	2.009289	0.720522	0.580553	0.392959
	877 phosphoethanolamine	0.593700	0.593700	0.996335	0.593700	0.593700	0.831274	1.633338	0.593700	0.819262

PATHWAY SORTORDER	BIOCHEMICAL NAME	DARM-00007	DARM-00008	DARM-00009	DARM-00010	DARM-00011	DARM-00012	DARM-00013	DARM-00014	DARM-00015
		NHSCi 2003 T1 997730 991352 NHSCi 2003 T1 D7 2003 T1 D7 164.122	NHSCi 2003 T1 997747 991353 NHSCi 2003 T1 D14 2003 T1 D14 167.3	NHSCi 2003 T1 997713 991354 NHSCi 2003 T1 D21 2003 T1 D21 157.075	NHSCi 2003 T1 997751 991355 NHSCi 2003 T1 D28 2003 T1 D28 174.895	NHSCi 2003 C 997716 991356 NHSCi 2003 C D0 2003 C D0 193.847	NHSCi 2003 C 997752 991357 NHSCi 2003 C D7 2003 C D7 179.605	NHSCi 2003 C 997719 991358 NHSCi 2003 C D14 2003 C D14 175.15	NHSCi 2003 C 997724 991359 NHSCi 2003 C D21 2003 C D21 167.535	NHSCi 2003 C 997729 991360 NHSCi 2003 C D28 2003 C D28 175.121
		T1 D7	T1 D14	T1 D21	T1 D28	C D0	C D7	C D14	C D21	C D28
	74 pipercolate	1.069883	1.134205	0.977444	1.002204	1.013801	1.188600	1.075593	1.137417	1.042642
	1531 piperine	0.960533	0.742917	1.179921	0.853887	1.249044	0.728075	0.763679	0.914611	0.966844
	246 proline	0.933815	0.900005	1.248685	0.994499	0.834910	0.829551	1.035551	1.018197	1.014322
	809 propionylcarnitine	0.821648	0.622675	0.778856	0.487806	0.797352	0.723017	0.822425	0.808531	0.730360
	1181 pseudouridine	0.788985	1.126088	1.638792	1.000323	0.998180	0.868874	1.197681	1.779715	1.219948
	45 pyroglutamine*	0.597374	0.350441	0.661227	0.699686	0.650159	0.422165	0.651579	0.517207	0.542282
	603 pyrophosphate (PPi)	0.717524	0.878915	1.009637	0.394905	1.914621	1.822755	0.565763	0.186096	0.385259
	535 pyruvate	0.102391	0.131934	2.234781	3.365902	1.475749	1.639510	2.224493	0.984990	0.820186
	1469 ranitidine	1.026638	1.000000	1.315141	0.918342	0.929226	0.811072	1.130570	1.097961	1.032377
	548 ribitol	4.495617	5.122583	7.448713	5.634157	0.953701	0.705272	1.225451	0.958717	1.127218
	557 ribose 5-phosphate	2.712544	2.466099	1.739737	0.865699	1.578994	1.289816	1.277638	0.854524	1.058120
	559 ribulose	3.518619	1.756845	1.714623	0.951284	0.240496	0.967002	0.586343	0.838888	0.736292
	224 S-adenosylhomocysteine (SAH)	0.981614	0.874326	1.103269	0.971546	0.549981	0.935056	1.133643	1.321041	1.220628
	551 sedoheptulose-7-phosphate	0.074096	0.074096	0.370648	1.117716	0.288959	2.351756	0.606188	1.196406	1.451772
	8 serine	0.961262	1.021881	1.433833	1.111375	0.827123	0.873389	1.064693	0.967975	1.012033
	216 S-methylcysteine	1.347967	2.027787	2.625465	1.746811	1.542209	2.067163	2.179524	1.810258	1.631400
	281 S-methylglutathione	1.435206	1.234675	1.095895	0.686720	0.964557	1.032169	1.035304	1.032800	0.975118
	270 spermidine	0.728213	0.792122	0.977184	0.791319	0.603725	0.745592	0.874977	1.000993	0.999007
	1584 stachydrine	0.126761	0.113742	0.140217	0.083990	0.110678	0.107599	0.113977	0.160798	0.113338
	637 stearate (18:0)	1.001200	1.113420	1.518442	0.897809	0.614115	0.762619	1.106370	1.094080	1.019197
	1005 stearoyl sphingomyelin	1.107782	1.183502	1.470237	1.026462	1.096071	1.059961	1.281980	1.109648	1.155776
	834 stearyl carnitine	0.236361	2.549162	1.139666	4.371011	0.101169	0.193408	0.319916	0.412648	0.892457
	591 succinylcarnitine	0.739038	0.699879	0.962272	0.780915	0.640083	0.605184	0.760776	0.870464	0.832856
	1662 terephthalic acid	0.733730	0.795418	0.987941	0.609384	0.814955	0.782714	0.729966	0.751060	0.689335
	1614 theobromine	1.092207	0.995990	1.355886	0.974437	1.222130	0.997137	1.226037	1.301636	1.482369
	1615 theophylline	1.055476	2.037853	0.963742	0.882810	0.593850	0.883607	1.658663	1.290417	1.158929
	549 threitol	1.227774	1.396417	2.318889	1.486356	0.916646	1.098222	1.454849	1.242685	1.368344
	1199 threonate	1.153959	1.073193	1.627627	1.204023	1.030629	0.881667	1.165691	0.998396	0.996490
	17 threonine	0.918846	1.151981	1.078225	0.891232	0.831370	0.772558	0.850172	1.006377	0.958014
	252 trans-4-hydroxyproline	1.301346	1.467660	1.254497	1.338684	1.079311	1.322353	1.232542	1.259168	1.324749

DARM-00007	DARM-00008	DARM-00009	DARM-00010	DARM-00011	DARM-00012	DARM-00013	DARM-00014	DARM-00015
NHSCi 2003 T1	NHSCi 2003 T1	NHSCi 2003 T1	NHSCi 2003 T1	NHSCi 2003 C	NHSCi 2003 C	NHSCi 2003 C	NHSCi 2003 C	NHSCi 2003 C
997730	997747	997713	997751	997716	997752	997719	997724	997729
991352	991353	991354	991355	991356	991357	991358	991359	991360
NHSCi 2003 T1 D7	NHSCi 2003 T1 D14	NHSCi 2003 T1 D21	NHSCi 2003 T1 D28	NHSCi 2003 C D0	NHSCi 2003 C D7	NHSCi 2003 C D14	NHSCi 2003 C D21	NHSCi 2003 C D28
2003	2003	2003	2003	2003	2003	2003	2003	2003
164.122	167.3	157.075	174.895	193.847	179.605	175.15	167.535	175.121
T1 D7	T1 D14	T1 D21	T1 D28	C D0	C D7	C D14	C D21	C D28

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SORTORDER BIOCHEMICAL NAME

501 trehalose	0.362640	0.987376	1.609654	1.426670	0.113570	0.650401	1.428155	1.125481	1.280808
1242 trigonelline (N'-methylnicotinate)	0.715801	0.684877	0.871114	0.585378	0.623422	0.601493	0.693382	0.760873	0.678253
145 tryptophan	1.078077	1.083771	1.113171	1.070096	0.751759	0.916593	1.010252	1.026334	1.038789
151 tryptophan betaine	0.563749	0.508787	0.669942	0.503194	0.458304	0.486344	0.559234	0.590852	0.539042
99 tyrosine	1.001827	0.996271	0.970865	1.064605	0.657797	0.878995	0.919015	0.983225	0.905808
1149 urate	1.150613	0.785304	1.132320	0.774115	0.972108	0.898797	1.127136	1.048037	0.910508
245 urea	1.137894	1.121389	1.516343	1.104584	1.008742	1.027302	1.164212	1.078467	1.153603
1180 uridine	1.008468	1.022501	1.072821	1.092326	0.489820	0.676550	0.646663	0.778744	0.613988
190 valine	1.015633	1.036547	1.072693	1.005024	0.742738	0.884658	0.936333	0.999074	0.988365
565 xylitol	1.000000	1.100450	0.551869	0.230551	0.127693	0.127693	0.127693	0.127693	0.127693
570 xylonate	0.895473	1.304235	2.210136	1.450331	0.462607	0.657234	1.393716	1.403347	1.195373
569 xylose	0.912174	2.319280	5.113885	3.642480	0.628684	0.539617	0.992577	0.902007	0.765536

PATHWAY	SORTORDER	BIOCHEMICAL NAME	DARM-00016	DARM-00017	DARM-00018	DARM-00019	DARM-00020	DARM-00021	DARM-00022	DARM-00023	DARM-00024
			NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1
			997715	997736	997748	997740	997720	997746	997738	997739	997737
			991361	991362	991363	991364	991365	991366	991367	991368	991369
			NHSCI 1866 T2 D0	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14	NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21
			1866	1866	1866	1866	1866	1866	1866	1866	1866
			T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21
			176.276	164.34	172.339	203.125	169.237	179.08	165.545	173.574	171.422
			T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21
		905 1,2-propanediol	0.501077	1.008225	1.193957	1.193501	1.938786	0.508979	1.258147	0.991775	1.268883
		532 1,3-dihydroxyacetone	0.899202	1.177730	1.244416	0.772604	1.132467	1.168994	0.769801	1.005678	0.959741
		515 1,5-anhydroglucitol (1,5-AG)	0.844037	1.254906	1.004858	0.901235	0.948845	0.907074	0.946739	0.816629	1.175666
		523 1,6-anhydroglucose	1.025619	0.956088	0.889175	0.841386	0.962219	0.994738	1.588749	1.606576	0.933949
		636 10-heptadecenoate (17:1n7)	0.637262	0.970133	0.985518	1.052469	1.538224	0.700381	1.071490	1.082156	1.334958
		742 13-methylmyristic acid	0.455073	0.815653	0.948027	0.819492	1.621920	0.647528	0.845897	1.066714	1.169079
		744 15-methylpalmitate (isobar with 2-	0.597510	0.982369	1.163702	1.024727	1.957059	0.494582	0.861680	0.925836	1.158560
		919 1-arachidonoylglycerophosphoethanolamine*	2.419082	1.048455	0.967015	1.023348	0.989288	0.857216	0.782681	0.764023	0.773242
		938 1-linoleoylglycerophosphocholine	1.855847	1.000051	0.925648	0.931377	1.376081	0.907058	1.006436	0.978712	0.997585
		926 1-myristoylglycerophosphocholine	0.416175	0.988348	1.054465	0.783463	1.151580	0.416175	1.294287	1.441688	2.835265
		936 1-oleoylglycerophosphocholine	0.381280	1.226697	0.980908	0.692886	2.067848	0.266163	3.892917	3.278638	7.683218
		915 1-oleoylglycerophosphoethanolamine	2.621518	1.928930	0.606206	0.805842	1.208158	0.848328	0.546344	0.935000	0.575729
		970 1-palmitoylglycerol (1-monopalmitin)	1.023991	0.450335	0.871233	1.022293	1.758619	0.539628	1.299680	1.191308	1.132647
		929 1-palmitoylglycerophosphocholine	0.361715	1.085191	0.914809	0.696891	1.936666	0.261963	2.979872	2.547329	4.767351
		909 1-palmitoylglycerophosphoethanolamine	2.224498	0.890349	0.728149	0.739888	1.302269	0.696349	0.859563	0.611085	0.921061
		934 1-stearoylglycerophosphocholine	0.294113	0.988165	1.048981	1.015904	1.690865	0.204017	2.633812	2.394982	5.054173
		533 2,3-diphosphoglycerate	3.131756	0.966633	0.162678	0.029859	0.029859	3.760561	4.571819	3.055307	1.204192
		263 2-aminobutyrate	1.037938	1.366085	1.276321	1.163623	1.284605	1.086646	1.141614	1.205569	1.178580
		945 2-arachidonoylglycerophosphocholine*	0.204822	1.041897	1.193644	0.911195	1.284297	0.475697	2.489087	2.367750	4.398900
		920 2-arachidonoylglycerophosphoethanolamine*	0.248766	1.297378	1.546375	1.140669	1.590801	0.305701	2.801008	2.664413	4.042665
		923 2-docosahexaenoylglycerophosphoethanolamine*	0.366251	0.948162	1.428324	0.924428	1.196317	0.388730	2.868841	2.755786	4.333425
		922 2-docosapentaenoylglycerophosphoethanolamine*	0.236388	0.951478	1.058894	1.157643	1.488061	0.391367	2.983034	2.469585	4.308172
		1360 2-ethylhexanoate (isobar with 2-propylpentanoate)	1.241506	1.141880	0.916301	0.710488	0.796478	0.596475	1.130952	0.557898	0.649441
		229 2-hydroxybutyrate (AHB)	0.963573	1.203928	1.215463	1.044740	1.116515	1.139958	1.171647	1.132603	1.105859
		714 2-hydroxyglutarate	0.865141	1.095801	1.443789	1.285344	2.250042	0.686172	2.522823	2.434008	2.650167
		706 2-hydroxypalmitate	1.536941	0.870774	0.930895	0.739916	1.158822	0.703316	1.003106	0.996894	1.211751
		939 2-linoleoylglycerophosphocholine*	0.229996	0.994754	0.832122	0.822841	0.734574	0.229996	1.696925	1.813504	3.067099
		202 2-methylbutyrylcarnitine	1.369594	1.050483	1.001283	0.888389	1.170955	1.005300	0.998717	0.710477	0.831663
		937 2-oleoylglycerophosphocholine*	0.511220	1.142690	1.000000	0.592969	1.064918	0.446642	2.370144	1.870782	3.969860
		930 2-palmitoylglycerophosphocholine*	0.353213	1.039430	1.174607	1.057279	1.514626	0.129147	2.300603	2.070896	4.057640

	DARM-00016	DARM-00017	DARM-00018	DARM-00019	DARM-00020	DARM-00021	DARM-00022	DARM-00023	DARM-00024		
	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1		
	997715	997736	997748	997740	997720	997746	997738	997739	997737		
	991361	991362	991363	991364	991365	991366	991367	991368	991369		
	NHSCI 1866 T2 D0	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14	NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21		
	1866	1866	1866	1866	1866	1866	1866	1866	1866		
	T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21		
	176.276	164.34	172.339	203.125	169.237	179.08	165.545	173.574	171.422		
PATHWAY	T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21		
SORTORDER	BIOCHEMICAL NAME										
	935	2-stearoylglycerophosphocholine*	0.142354	1.010002	0.770604	1.000000	1.235202	0.142354	1.503402	1.398572	3.314417
	821	3-dehydrocarnitine*	0.999833	1.072591	1.049253	0.873041	1.188172	0.875033	1.054565	1.000167	0.926485
	170	3-indoxyl sulfate	0.627934	0.793543	0.590916	0.630024	0.759052	0.451256	0.569663	0.460182	0.750213
	172	3-methyl-2-oxobutyrate	1.340545	1.640315	1.435467	1.000000	0.980369	0.682175	0.167871	0.167871	0.239328
	173	3-methyl-2-oxovalerate	0.873059	1.139579	1.089805	1.017484	1.142921	0.840581	0.563238	0.323670	0.318889
	529	3-phosphoglycerate	1.238096	1.178441	0.514662	0.310980	0.370603	3.110964	1.987114	1.584618	0.649989
	193	4-methyl-2-oxopentanoate	1.008235	1.345157	1.321313	0.956152	0.993652	0.850549	0.437402	0.239005	0.299811
	266	5-methylthioadenosine (MTA)	0.372898	0.996410	1.157961	1.049878	0.959408	0.451807	1.213418	1.311506	1.104804
	282	5-oxoproline	0.191970	0.667539	1.022036	1.143684	1.980196	0.200106	0.775595	1.205515	1.344583
	545	6-phosphogluconate	0.644416	1.235349	0.565711	0.467849	0.841428	0.875263	0.723658	1.115971	0.467849
	1024	7-beta-hydroxycholesterol	1.569456	0.476216	1.047089	0.363094	1.138381	1.318148	0.925294	1.004491	0.672304
	712.5	9,10-epoxyoctadec-12(Z)-enoic acid	0.048331	0.802532	1.027817	1.145545	1.713407	0.111045	0.854273	1.105050	1.152606
	672	9,10-epoxystearate	0.033463	0.809321	1.028911	1.006787	1.547654	0.037295	0.833233	1.227107	1.230720
	822	acetylcarnitine	1.277266	1.241471	1.139287	0.923100	1.099697	1.062935	1.229760	1.029721	0.999643
	601	acetylphosphate	0.990894	1.219679	1.245058	0.936207	1.064480	0.978169	1.080920	1.013816	1.010781
	1105	adenine	1.206089	0.925700	0.570488	0.358702	0.327902	1.103432	1.211731	0.973460	0.761106
	1106	adenosine	0.744577	0.753606	0.666923	0.982457	1.320279	0.672741	1.458001	1.480518	1.305395
	1116	adenosine 5'-diphosphate (ADP)	1.290323	1.033594	1.003406	0.792081	0.989024	0.877849	0.836119	0.722971	0.518700
	1232	adenosine 5'diphosphoribose	0.881198	1.041143	0.942067	0.721731	0.727361	0.884578	1.174893	0.958287	0.777991
	1114	adenosine 5'-monophosphate (AMP)	0.999976	1.000024	1.039602	1.036467	1.855358	0.636202	0.876975	0.658025	0.832007
	665	adrenate (22:4n6)	1.314933	1.583554	0.741561	1.612064	1.808242	3.301831	0.570350	0.930507	1.460123
	27	alanine	0.925090	1.241298	1.268784	1.069091	1.291588	0.863901	0.980929	0.900353	0.935163
	1150	allantoin	2.172045	0.634390	0.708213	1.222934	1.518035	0.554513	1.000000	0.421193	1.093115
	179	alpha-hydroxyisocaproate	0.292412	0.292412	0.736097	0.903338	1.543100	0.292412	1.047084	1.661864	1.235539
	198	alpha-hydroxyisovalerate	0.603512	0.605749	0.724186	1.033939	1.838540	0.962598	2.580216	2.735497	2.628104
	1266	alpha-tocopherol	0.878454	0.925404	0.797936	0.745309	0.803727	0.829351	0.726907	0.645369	0.589830
	1034	androsterone sulfate	1.375482	1.128043	1.233316	1.069587	1.439223	1.169557	1.403166	0.802192	1.043725
	566	arabinose	0.961928	1.006028	1.133260	0.805106	1.072359	1.003430	1.236761	0.852454	1.009708
	546	arabitol	0.957407	0.981489	0.854802	0.942624	1.021827	0.809730	1.389543	1.469408	1.373357
	1202	arabonate	0.713833	1.138744	0.917448	0.725064	1.108036	0.862560	1.091336	0.779331	0.721375
	659	arachidonate (20:4n6)	0.567370	0.749888	0.915883	1.100946	1.845425	0.501375	0.837303	0.868220	1.270383
	241	arginine	0.419416	1.012233	0.782343	0.781781	2.459407	0.726401	0.987767	1.098019	1.395338
	25	asparagine	1.289194	1.350922	1.235291	0.963008	0.885318	1.316032	1.458511	1.100523	1.013047
	24	aspartate	0.482904	0.605235	0.664009	0.701156	0.700856	0.901982	0.998569	0.973182	0.880816

	DARM-00016	DARM-00017	DARM-00018	DARM-00019	DARM-00020	DARM-00021	DARM-00022	DARM-00023	DARM-00024	
	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1	
	997715	997736	997748	997740	997720	997746	997738	997739	997737	
	991361	991362	991363	991364	991365	991366	991367	991368	991369	
	NHSCI 1866 T2 D0	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14	NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	
	1866	1866	1866	1866	1866	1866	1866	1866	1866	
	T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21	
	176.276	164.34	172.339	203.125	169.237	179.08	165.545	173.574	171.422	
PATHWAY	T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21	
SORTORDER	BIOCHEMICAL NAME									
721	azelate (nonanedioate)	0.210289	0.662763	0.926046	1.242125	1.738198	0.194245	0.627354	0.838250	1.131933
26	beta-alanine	1.800861	1.724048	2.102594	1.327686	0.620389	1.560572	1.641957	1.528781	1.218936
7	beta-hydroxypyruvate	0.554623	1.170740	1.065125	0.774761	1.085895	0.851838	0.948759	0.896470	0.672498
22	betaine	1.075655	1.201195	1.172755	0.990549	1.182740	1.077367	1.233125	1.200922	1.185297
1057	beta-sitosterol	1.378020	0.349092	0.349092	0.991994	1.072504	1.008006	1.095494	1.311701	1.145349
1216	biliverdin	0.798077	0.878080	1.794687	1.530214	1.488774	0.526687	2.688201	2.179164	3.642624
811	butyrylcarnitine	0.598389	0.958778	2.157606	0.813252	0.871551	1.646579	1.020169	0.598389	1.573956
1612	caffeine	1.263467	1.205485	1.133723	1.028486	1.065448	0.977868	1.113836	1.089265	1.113483
1059	campesterol	0.995934	1.087392	1.360507	0.878240	0.469755	0.469755	0.965511	0.932175	1.862319
622	caprate (10:0)	0.573585	1.046230	1.306931	0.964397	1.267035	0.562548	0.956619	0.989396	0.686388
618	caproate (6:0)	1.377155	1.529443	0.818669	0.740630	1.057454	0.842092	1.192223	0.436990	0.449683
620	caprylate (8:0)	0.632103	1.192723	1.199343	1.473919	1.580141	0.549565	1.849478	0.555594	1.076247
820	carnitine	1.005071	1.243940	1.211781	0.990124	1.252389	1.120270	1.232238	1.269324	1.234114
1300	catechol sulfate	0.971109	1.042230	0.964121	0.825281	1.012566	0.963242	1.081185	0.957620	0.955499
164	C-glycosyltryptophan*	0.964929	0.988524	1.505223	1.076518	0.960933	0.909000	0.903513	1.108958	1.177757
1020	cholesterol	0.921397	1.080995	1.136624	0.915988	1.055749	1.021002	1.074846	0.969248	0.933694
881	choline	1.430515	1.578485	1.370786	1.249538	1.513476	1.427234	1.572337	1.549981	1.470633
582	cis-aconitate	0.723186	1.005069	1.011291	0.909410	1.206941	0.596630	0.994931	1.025652	1.052424
641	cis-vaccenate (18:1n7)	0.494205	1.107788	0.457371	0.888823	0.680862	0.824207	1.910968	0.572285	1.190650
579	citrate	0.988956	0.973393	0.830051	0.659026	0.670119	1.049642	1.022152	0.712683	0.530010
248	citrulline	0.732821	0.941961	0.786135	0.851455	0.864658	0.802859	0.796177	0.861970	0.857194
259	creatine	1.072934	1.166761	1.122958	0.937071	1.135091	1.006465	1.162302	1.106957	1.105684
260	creatinine	1.061977	1.069059	1.025679	1.003797	1.119094	1.022388	1.004359	1.124995	1.052232
213	cysteine	0.470891	0.760858	1.162170	1.491504	1.826819	0.560433	0.521496	0.771319	1.150021
819	deoxycarnitine	1.094273	1.133404	1.290251	0.893564	1.142238	0.921844	1.122176	1.074504	1.038118
655	dihomo-linoleate (20:2n6)	0.793124	0.988499	1.097323	1.094015	1.870038	0.669063	1.178471	1.411081	1.522516
609	dihomo-linolenate (20:3n3 or n6)	0.727908	0.798627	0.794714	0.970348	1.443343	0.614837	0.822653	0.945218	1.180436
531	dihydroxyacetone phosphate (DHAP)	0.239333	0.599793	0.239333	0.488592	0.239333	26.246931	58.469345	11.158892	0.239333
3	dimethylglycine	0.688915	0.979446	1.006086	1.513394	1.500375	0.945475	0.888860	1.069698	0.663023
613	docosaehaenoate (DHA; 22:6n3)	0.443525	0.704866	1.067516	1.027216	1.493019	0.424190	0.972784	0.888162	1.129717
611	docosapentaenoate (n3 DPA; 22:5n3)	0.412333	0.748287	1.004777	0.999515	1.705677	0.429058	0.799325	1.033177	1.303055
610	eicosapentaenoate (EPA; 20:5n3)	0.321751	0.775957	0.821262	0.908357	1.204325	0.830439	0.845855	0.986530	1.124767

	DARM-00016	DARM-00017	DARM-00018	DARM-00019	DARM-00020	DARM-00021	DARM-00022	DARM-00023	DARM-00024	
	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1	
	997715	997736	997748	997740	997720	997746	997738	997739	997737	
	991361	991362	991363	991364	991365	991366	991367	991368	991369	
	NHSCI 1866 T2 D0	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14	NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21	
	1866	1866	1866	1866	1866	1866	1866	1866	1866	
	T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21	
	176.276	164.34	172.339	203.125	169.237	179.08	165.545	173.574	171.422	
PATHWAY	T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21	
SORTORDER	BIOCHEMICAL NAME									
1565	ergothioneine	1.452924	1.344576	1.275889	1.069400	1.472451	1.073396	1.291689	1.193013	1.203446
735	erucamide	3.581430	0.412254	1.034310	1.012411	0.771882	3.075173	1.418402	0.954475	0.987589
1632	erythritol	0.519126	0.792453	0.939086	0.934951	1.221505	0.579283	1.018653	1.407544	1.829268
453	erythronate*	0.734372	0.917399	1.190023	0.992148	1.384581	0.722092	1.283408	2.038252	2.906687
876	ethanolamine	0.904855	1.058362	1.575824	1.160173	0.766092	0.641429	1.070066	1.023690	0.864240
472	fructose	0.832862	1.063905	1.090366	0.985075	1.071791	0.808681	0.655052	0.655034	1.014925
524	fructose-6-phosphate	0.842078	1.023060	0.985739	0.610627	1.175219	0.397472	0.989227	1.233759	0.560529
594	fumarate	0.781422	0.947119	1.000480	0.953925	1.715840	0.714969	1.442458	1.524422	1.598409
404	gamma-glutamylleucine	1.121323	0.725333	0.888391	0.715255	0.671972	1.195749	1.446832	1.080715	1.144540
521	glucose	0.966351	1.089534	1.062043	0.860784	1.077872	1.001462	1.073071	0.920134	0.881752
519	glucose-6-phosphate (G6P)	0.840416	1.253397	0.936403	0.624125	1.266786	0.232264	0.169608	0.822482	1.058154
39	glutamate	1.199616	1.270962	1.300098	1.005913	1.373271	1.304027	1.469782	1.084066	0.904710
44	glutamine	1.337271	1.179785	1.064176	0.833892	0.794066	1.329939	1.055028	0.793461	0.702357
80	glutaroyl carnitine	0.978552	1.283623	1.034547	1.086314	1.088812	0.798038	0.790916	0.794879	0.820006
283	glutathione, oxidized (GSSG)	1.282356	1.172061	0.939052	0.697792	0.846550	1.488466	1.107346	0.891155	0.712402
280	glutathione, reduced (GSH)	1.042456	0.972324	1.127807	0.880631	0.889339	1.072550	0.854247	1.037525	0.990698
517	glycerate	0.363275	0.725053	0.847936	1.003772	1.214712	0.541739	4.288396	7.798664	8.984795
882	glycerol 3-phosphate (G3P)	1.223840	1.023186	0.963402	0.922959	0.970310	2.362033	3.554280	1.810766	0.819903
883	glycerophosphorylcholine (GPC)	0.950387	1.026028	0.960271	0.829710	0.952660	0.988479	1.021603	1.069304	1.057175
1	glycine	0.559408	0.959904	1.154372	1.129173	1.751983	0.641308	0.835534	0.828598	0.970613
851	glycochenodeoxycholate	3.078268	2.166819	1.868720	1.863959	1.998294	1.908885	2.313250	2.062409	1.884735
840	glycocholate	1.218197	1.110704	1.093944	1.050813	1.312518	1.059299	1.222289	1.061226	1.039295
849	glycodeoxycholate	1.281072	1.250581	1.126701	1.183213	1.347040	0.803958	1.031556	1.320247	1.045791
1318	glycolate (hydroxyacetate)	0.782613	1.124610	1.104063	0.793728	0.883599	0.873721	0.956965	0.912868	0.848197
1128	guanosine	1.100134	1.140500	0.903265	0.453745	0.799816	0.863872	1.001799	0.986811	0.998201
1212	heme*	0.687347	1.852198	2.188751	1.072830	1.085982	1.021296	4.959563	2.869865	5.726540
619	heptanoate (7:0)	0.879660	1.467036	1.036075	1.074240	1.385410	0.485282	1.212419	0.426742	0.502048
823	hexanoylcarnitine	1.201647	0.853883	0.819349	0.629854	1.173287	0.870142	1.149399	0.684310	0.856738
1288	hippurate	1.017897	0.977590	0.943760	0.783767	0.945345	0.854317	1.058393	0.987116	0.970774
50	histidine	1.141519	1.147005	1.077978	0.874496	0.985874	1.113876	1.042943	1.004199	1.327249

PATHWAY SORTORDER	BIOCHEMICAL NAME	DARM-00016	DARM-00017	DARM-00018	DARM-00019	DARM-00020	DARM-00021	DARM-00022	DARM-00023	DARM-00024
		NHSCI 1866 T2 997715 991361 NHSCI 1866 T2 D0 1866 T2 D0 176.276	NHSCI 1866 T2 997736 991362 NHSCI 1866 T2 D7 1866 T2 D7 164.34	NHSCI 1866 T2 997748 991363 NHSCI 1866 T2 D14 1866 T2 D14 172.339	NHSCI 1866 T2 997740 991364 NHSCI 1866 T2 D21 1866 T2 D21 203.125	NHSCI 1866 T2 997720 991365 NHSCI 1866 T2 D28 1866 T2 D28 169.237	NHSCI 1866 T1 997746 991366 NHSCI 1866 T1 D0 1866 T1 D0 179.08	NHSCI 1866 T1 997738 991367 NHSCI 1866 T1 D7 1866 T1 D7 165.545	NHSCI 1866 T1 997739 991368 NHSCI 1866 T1 D14 1866 T1 D14 173.574	NHSCI 1866 T1 997737 991369 NHSCI 1866 T1 D21 1866 T1 D21 171.422
		T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21
	231 homocysteine	0.283300	0.475163	1.007745	1.122871	1.114777	0.408054	0.583348	1.610877	1.466120
	1585 homostachydrine*	0.895599	0.913906	0.880724	0.910255	0.671347	0.987482	0.689098	0.792906	0.878708
	206 hydroxyisovaleroyl carnitine	1.555557	1.475419	1.338186	1.257551	1.352897	1.136843	1.420923	1.271762	1.239892
	1098 hypoxanthine	0.067233	0.073749	0.376762	1.185439	2.880014	0.078254	5.826920	5.161455	4.634178
	1101 inosine 5'-monophosphate (IMP) Isobar: fructose 1,6-diphosphate, glucose 1,6-	0.569606	1.262374	1.856280	1.307858	1.828663	0.679147	0.892558	1.424407	2.152652
	527 diphosphate, myo-inositol 1,4 or 1,3-diphosphate	1.011434	1.150256	0.918173	0.689814	0.842561	2.681738	8.546598	1.371044	0.528261
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate	0.882393	1.017659	0.898523	0.590153	1.049265	4.434954	6.085914	2.878977	0.472048
	496 Isobar: sorbitol, mannitol	0.983165	1.086215	0.998538	0.908520	1.046699	1.088187	1.105944	1.119317	1.096617
	200 isobutyrylcarnitine	1.285879	1.298824	1.079126	0.912776	1.081439	1.094675	1.065939	0.983286	0.978169
	180 isoleucine	0.904508	1.100839	1.040173	0.921140	1.129414	0.892762	1.307340	1.307142	1.216562
	478 isomaltose	0.786380	1.470613	1.112872	0.903280	1.001079	1.957774	1.071817	0.792280	0.876707
	205 isovalerylcarnitine	1.004065	1.102286	0.906413	0.836451	1.000485	0.947076	1.107538	1.012280	0.945728
	144 kynurenine	0.912488	1.340235	0.954535	1.068438	0.991351	1.296000	1.232886	1.155386	1.008649
	536 lactate	0.219858	0.713728	0.979672	0.987821	1.318691	0.314322	1.010858	1.297025	1.546916
	1018 lathosterol	0.489776	0.629410	0.658497	0.592428	0.489776	0.489776	0.489776	0.608806	0.696326
	625 laurate (12:0)	0.727765	0.893438	0.973073	0.883826	1.136358	0.847900	1.112136	1.135608	0.914981
	181 leucine	0.932373	1.154303	1.126427	0.983899	1.282916	0.846578	1.295956	1.243840	1.225019
	604 linoleate (18:2n6)	0.740226	0.943546	1.047389	1.056420	1.532676	0.650377	1.235684	1.224176	1.457363
	608 linolenate [alpha or gamma; (18:3n3 or 6)]	0.514370	0.992250	1.010648	0.902997	1.476587	0.810550	1.197361	1.016417	1.293051
	69 lysine	1.071880	1.216980	1.212152	0.945992	0.959892	1.093781	1.223889	1.173469	1.016303
	598 malate	0.719036	1.045822	0.996498	0.974779	1.516162	0.587334	1.575855	1.668774	1.756515
	482 maltose	0.828407	1.022714	1.042451	0.797524	0.920378	0.974123	1.019700	0.894867	0.951805
	487 mannose	0.963028	1.086009	1.088833	0.852053	0.964234	1.056535	0.984285	0.854840	0.843114
	489 mannose-6-phosphate	0.857830	0.961492	0.918527	0.645243	1.041229	0.446117	1.264991	1.171008	1.030862
	635 margarate (17:0)	0.751814	0.979277	1.057576	0.978154	1.787250	0.646236	1.032539	0.932111	1.116143

PATHWAY	SORTORDER	BIOCHEMICAL NAME	DARM-00016	DARM-00017	DARM-00018	DARM-00019	DARM-00020	DARM-00021	DARM-00022	DARM-00023	DARM-00024
			NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1
			997715	997736	997748	997740	997720	997746	997738	997739	997737
			991361	991362	991363	991364	991365	991366	991367	991368	991369
			NHSCI 1866 T2 D0	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14	NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21
			1866	1866	1866	1866	1866	1866	1866	1866	1866
			T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21
			176.276	164.34	172.339	203.125	169.237	179.08	165.545	173.574	171.422
			T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21
		658 mead acid (20:3n9)	1.023907	0.846368	0.429630	1.190257	0.598479	0.379121	0.684029	0.967622	0.849523
		225 methionine	1.484732	1.556007	1.093167	0.767968	0.785262	1.482286	1.429376	1.110052	0.844176
		890 myo-inositol	1.072864	1.183885	1.243195	1.018537	0.993139	1.270321	1.270127	1.000742	0.907486
		629 myristate (14:0)	0.632412	0.997450	1.040445	1.061978	1.389486	0.521104	1.087679	0.943317	0.982699
		630 myristoleate (14:1n5)	0.743900	0.493142	1.060393	1.029879	1.508858	0.639250	1.075540	1.430668	0.493142
		1242.1 N1-Methyl-2-pyridone-5-carboxamide	0.650682	0.609814	0.677527	0.989965	0.738252	1.031610	0.579258	0.536434	0.725869
		75 N-6-trimethyllysine	1.368356	1.410117	1.042377	1.165226	1.206613	1.455469	1.235048	1.103404	1.239353
		4 N-acetylglycine	0.703126	1.015153	1.076402	0.584292	0.995851	0.943287	0.830171	0.820991	0.584292
		227 N-acetylmethionine	1.574492	0.950742	0.800527	1.350351	1.256783	0.843524	1.421345	0.800527	1.185046
		455 N-acetylneuraminic acid	0.497311	1.056485	1.021391	0.940026	1.107883	0.371034	1.073767	0.725931	1.412426
		1221 nicotinamide	0.814811	1.011838	0.898458	0.765642	1.170664	0.795070	1.157654	0.970815	1.156090
		1224 nicotinamide adenine dinucleotide (NAD+)	0.956705	1.272578	2.370546	1.934508	1.123941	2.371158	2.876988	0.880158	0.742219
		825 octanoylcarnitine	1.213300	1.314767	1.210047	1.106624	1.139082	0.836387	1.070222	1.119745	1.260096
		639 oleate (18:1n9)	0.986547	1.005248	1.308166	1.188103	1.170810	1.211565	1.315366	1.203807	1.278957
		835 oleoylcarnitine	0.489242	1.528689	2.466769	1.901271	2.201156	0.438430	4.465172	4.405629	10.564249
		285 ophthalmate	3.551742	1.265355	0.442083	0.317707	0.252181	4.305184	1.997412	1.021023	0.470232
		244 ornithine	0.939261	1.143336	1.192263	0.931368	0.814906	0.869352	1.104434	1.057265	0.910761
		632 palmitate (16:0)	0.913437	0.969764	1.017147	0.903961	1.471748	0.676940	1.002933	0.999613	1.101544
		633 palmitoleate (16:1n7)	0.513091	0.815732	0.793765	1.124851	1.185019	0.732571	1.036071	1.231488	1.073138
		1004 palmitoyl sphingomyelin	0.961134	1.115795	1.186349	0.929576	1.078754	0.898686	1.139961	1.000592	0.874015
		833 palmitoylcarnitine	0.478760	1.196707	1.940597	1.450066	1.780151	0.407763	3.175823	2.972802	6.705207
		1243 pantothenate	0.945577	1.082141	1.026898	0.997117	1.059047	0.979483	1.114799	1.046370	0.905345
		1613 paraxanthine	0.758178	1.100879	1.023721	0.871267	0.959727	0.842121	1.043439	0.994415	0.898474
		88 p-cresol sulfate	0.759756	0.817534	0.774604	0.710700	0.748159	0.667677	0.813802	0.675227	0.695812
		621 pelargonate (9:0)	0.583328	1.344405	1.071773	1.040874	1.402575	0.410839	1.092199	0.658950	0.603910
		631 pentadecanoate (15:0)	0.739352	0.956042	1.038052	0.947417	1.428828	0.765198	1.088934	0.967923	1.196280
		135 phenol sulfate	0.974653	1.009513	0.907712	0.795517	0.979679	0.963932	1.153787	0.951593	0.898472
		128 phenylacetylglutamine	0.695259	0.726709	0.755868	0.584470	0.839592	0.707988	0.761715	0.664343	0.735338
		83 phenylalanine	0.727383	1.011808	0.990709	0.871037	1.030560	0.744195	1.023801	1.009952	0.959216
		602 phosphate	0.892017	1.168188	1.181990	1.011836	1.172479	0.768304	0.703605	0.610242	0.773958
		534 phosphoenolpyruvate (PEP)	2.126739	1.031623	0.291297	0.193772	0.155305	4.071632	2.866429	1.887392	0.647512
		877 phosphoethanolamine	0.923308	1.072515	1.405192	1.003665	1.173373	1.634368	0.815893	1.129493	0.868065

PATHWAY SORTORDER	BIOCHEMICAL NAME	DARM-00016	DARM-00017	DARM-00018	DARM-00019	DARM-00020	DARM-00021	DARM-00022	DARM-00023	DARM-00024
		NHSCI 1866 T2 997715 991361 NHSCI 1866 T2 D0 1866 T2 D0 176.276	NHSCI 1866 T2 997736 991362 NHSCI 1866 T2 D7 1866 T2 D7 164.34	NHSCI 1866 T2 997748 991363 NHSCI 1866 T2 D14 1866 T2 D14 172.339	NHSCI 1866 T2 997740 991364 NHSCI 1866 T2 D21 1866 T2 D21 203.125	NHSCI 1866 T2 997720 991365 NHSCI 1866 T2 D28 1866 T2 D28 169.237	NHSCI 1866 T1 997746 991366 NHSCI 1866 T1 D0 1866 T1 D0 179.08	NHSCI 1866 T1 997738 991367 NHSCI 1866 T1 D7 1866 T1 D7 165.545	NHSCI 1866 T1 997739 991368 NHSCI 1866 T1 D14 1866 T1 D14 173.574	NHSCI 1866 T1 997737 991369 NHSCI 1866 T1 D21 1866 T1 D21 171.422
		T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21
	74 pipercolate	0.795467	1.110439	0.866838	0.747487	1.142169	0.935262	1.097380	0.972062	1.037049
	1531 piperine	1.794483	1.780262	1.038199	1.033156	0.917698	1.041107	1.759989	1.271048	1.495063
	246 proline	1.013856	1.046929	0.983892	0.909081	1.180662	0.879096	1.020036	1.005501	1.005694
	809 propionylcarnitine	1.652190	1.517885	1.303306	1.078465	1.254020	1.376766	1.343697	1.097893	1.001871
	1181 pseudouridine	0.918881	1.108099	0.880978	0.734292	1.010960	0.570276	0.967920	1.152684	0.804972
	45 pyroglutamine*	1.505178	1.739141	1.525632	1.340829	1.820351	1.569546	1.742140	1.800413	1.531138
	603 pyrophosphate (PPi)	1.619585	2.014208	0.944148	0.725752	0.421184	2.803005	1.259798	1.055006	0.657354
	535 pyruvate	2.169760	2.358569	1.015010	0.542479	0.747050	0.065020	0.039915	0.108379	2.064760
	1469 ranitidine	0.811072	0.811072	0.811072	0.811072	0.811072	0.811072	0.811072	0.811072	0.811072
	548 ribitol	0.746264	1.290269	0.602225	0.875069	1.077702	0.777809	4.827632	6.291121	5.674953
	557 ribose 5-phosphate	0.941880	0.887955	0.857664	0.877680	0.767096	2.235521	3.494890	1.843313	0.662457
	559 ribulose	1.233137	0.777685	0.776057	0.705694	1.603587	1.000000	6.182086	4.766923	1.423436
	224 S-adenosylhomocysteine (SAH)	0.670923	1.173121	0.990527	0.908534	1.327612	0.585667	1.009473	1.159935	0.868522
	551 sedoheptulose-7-phosphate	0.312007	1.297012	1.479980	0.603954	1.226593	0.074096	0.093846	0.074096	0.594090
	8 serine	0.961744	1.266789	1.218023	1.025300	1.216261	0.987967	1.253440	1.178263	1.160987
	216 S-methylcysteine	0.562773	0.607159	0.428310	0.887603	0.734662	0.539099	0.677550	0.470051	0.581260
	281 S-methylglutathione	0.690237	1.587726	0.966433	0.923935	0.742056	0.810818	1.399870	1.538145	0.995664
	270 spermidine	1.062502	1.289947	1.218212	1.044024	1.280570	0.922495	1.182150	1.071928	1.063963
	1584 stachydrine	2.095102	2.330842	2.110076	1.839202	2.319102	1.922350	2.249901	2.111208	2.184161
	637 stearate (18:0)	0.843957	1.055444	1.084165	0.975553	1.556442	0.642299	1.004454	0.976885	1.077237
	1005 stearoyl sphingomyelin	0.865486	0.911076	1.080005	0.786180	0.917909	0.922069	1.172109	0.914078	0.903442
	834 stearoylcarnitine	0.406720	1.136923	2.020013	1.656963	1.843958	0.310522	3.205297	2.808168	6.886410
	591 succinylcarnitine	1.183375	1.337074	1.301392	1.084051	1.445426	1.037728	1.223270	1.260462	1.322879
	1662 terephthalic acid	1.182466	1.144063	1.345530	1.147011	1.371383	1.214571	1.404467	1.103014	1.189349
	1614 theobromine	0.686930	0.607131	1.420081	0.695816	1.002863	0.642601	0.744874	0.658977	0.784564
	1615 theophylline	0.857493	0.841441	0.852026	1.044626	1.110884	0.661419	0.868306	0.828888	0.440691
	549 threitol	0.605065	0.800077	0.887474	0.757795	0.899228	0.740354	1.046007	1.065307	1.030688
	1199 threonate	0.884623	1.056487	1.001604	0.909616	1.062214	0.921414	0.909397	1.018455	1.052177
	17 threonine	0.993623	1.330512	1.399478	1.081520	1.268171	1.056761	1.242720	1.244335	1.182913
	252 trans-4-hydroxyproline	0.814001	0.774311	0.829652	0.849252	0.805627	0.572124	0.905691	0.920689	0.768722

	DARM-00016	DARM-00017	DARM-00018	DARM-00019	DARM-00020	DARM-00021	DARM-00022	DARM-00023	DARM-00024
	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T2	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1	NHSCI 1866 T1
	997715	997736	997748	997740	997720	997746	997738	997739	997737
	991361	991362	991363	991364	991365	991366	991367	991368	991369
	NHSCI 1866 T2 D0	NHSCI 1866 T2 D7	NHSCI 1866 T2 D14	NHSCI 1866 T2 D21	NHSCI 1866 T2 D28	NHSCI 1866 T1 D0	NHSCI 1866 T1 D7	NHSCI 1866 T1 D14	NHSCI 1866 T1 D21
	1866	1866	1866	1866	1866	1866	1866	1866	1866
	T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21
	176.276	164.34	172.339	203.125	169.237	179.08	165.545	173.574	171.422
	T2 D0	T2 D7	T2 D14	T2 D21	T2 D28	T1 D0	T1 D7	T1 D14	T1 D21

PATHWAY

SORTORDER BIOCHEMICAL NAME

501 trehalose	0.201019	0.850848	1.406976	1.468295	1.387215	0.238892	0.629188	0.817213	1.234079
1242 trigonelline (N'-methylnicotinate)	1.272694	1.372181	1.291222	1.128886	1.249649	1.237602	1.396669	1.306094	1.279538
145 tryptophan	0.817334	1.095493	1.015031	0.924403	0.989748	0.804220	1.055440	1.011476	0.975269
151 tryptophan betaine	1.603943	1.661904	1.530906	1.330058	1.623229	1.330451	1.600966	1.481023	1.493108
99 tyrosine	0.968936	1.194225	1.180995	1.056896	1.208565	0.998173	1.229578	1.191890	1.152029
1149 urate	1.265110	1.161604	0.988206	0.854142	1.073201	1.089558	1.119075	0.882419	0.904778
245 urea	0.800316	1.026784	0.987892	0.812787	0.956288	0.823694	0.991944	0.845993	0.855559
1180 uridine	0.831653	0.991532	1.096638	1.024148	1.473673	0.814876	1.395201	1.248259	1.136566
190 valine	0.972327	1.166725	1.181283	0.977507	1.158445	0.943391	1.185855	1.083818	1.099776
565 xylitol	0.127693	0.127693	0.127693	0.176147	0.127693	0.127693	3.035000	3.016489	1.694447
570 xylonate	0.859141	0.700778	1.047475	0.881897	0.844633	0.663354	1.184012	1.286874	1.494055
569 xylose	0.405368	1.222699	0.857077	0.405368	1.423885	0.779886	1.196334	2.876936	3.427724

	DARM-00025	DARM-00026	DARM-00027	DARM-00028	DARM-00029	DARM-00030	
	NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	
	997732	997735	997723	997728	997722	997744	
	991370	991371	991372	991373	991374	991375	
	NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866	NHSCI 1866 C	NHSCI 1866 C	
	D28	D0	D7	C D14	D21	D28	
	1866	1866	1866	1866	1866	1866	
	T1 D28	C D0	C D7	C D14	C D21	C D28	
	155.949	177.522	181.946	180.175	185.286	186.197	
PATHWAY	T1 D28	C D0	C D7	C D14	C D21	C D28	
SORTORDER	BIOCHEMICAL NAME						
905	1,2-propanediol	1.962303	0.563461	0.773673	1.188689	1.091823	1.385370
532	1,3-dihydroxyacetone	0.936173	0.879981	0.749898	0.994428	0.706877	1.082746
515	1,5-anhydroglucitol (1,5-AG)	1.009787	1.012087	0.746767	0.869682	0.821318	0.777494
523	1,6-anhydroglucose	1.364420	1.297502	0.891604	0.915285	0.763173	0.988839
636	10-heptadecenoate (17:1n7)	1.403745	0.828227	1.043206	1.049363	1.261397	0.927437
742	13-methylmyristic acid	1.530483	0.603959	1.018858	1.136946	1.039832	0.979638
744	15-methylpalmitate (isobar with 2-	1.495298	0.533960	0.933209	0.938384	1.364927	1.003488
919	1-arachidonoylglycerophosphoethanolamine*	0.818711	1.309575	1.237829	1.010712	1.061398	0.783981
938	1-linoleoylglycerophosphocholine	1.056072	0.968415	1.238837	1.016508	1.211700	0.809547
926	1-myristoylglycerophosphocholine	0.936136	0.416175	0.416175	0.923876	0.678494	3.272995
936	1-oleoylglycerophosphocholine	1.791263	0.077483	0.290619	0.924987	1.459732	5.534157
915	1-oleoylglycerophosphoethanolamine	1.366971	1.344172	1.065000	0.798952	1.261417	0.814458
970	1-palmitoylglycerol (1-monopalmitin)	0.861226	0.719199	0.876449	1.356011	1.035025	1.231294
929	1-palmitoylglycerophosphocholine	1.718517	0.043437	0.315703	0.885723	1.491287	3.485666
909	1-palmitoylglycerophosphoethanolamine	0.561704	0.957055	0.992772	1.007228	0.741135	0.624214
934	1-stearoylglycerophosphocholine	1.557930	0.038298	0.255335	0.766923	1.059703	4.757974
533	2,3-diphosphoglycerate	0.260365	2.813990	1.000000	0.192421	0.036846	0.034709
263	2-aminobutyrate	1.440552	1.146852	1.057026	1.246625	0.998962	1.096195
945	2-arachidonoylglycerophosphocholine*	1.000000	0.185345	0.301695	0.661601	0.866965	3.947168
920	2-arachidonoylglycerophosphoethanolamine*	1.490698	0.067699	0.312859	0.887969	1.189819	3.367121
923	2-docosahexaenoylglycerophosphoethanolamine*	1.305922	0.136031	0.529947	1.146430	1.051838	3.821691
922	2-docosapentaenoylglycerophosphoethanolamine*	1.294222	0.089145	0.328395	1.000000	1.111352	3.272113
1360	2-ethylhexanoate (isobar with 2-propylpentanoate)	0.580689	0.854823	1.005285	0.956193	0.542068	0.568130
229	2-hydroxybutyrate (AHB)	1.160729	1.040493	1.021836	1.108594	0.868716	1.077310
714	2-hydroxyglutarate	3.238803	0.844283	0.759518	1.171081	1.299516	1.817171
706	2-hydroxypalmitate	1.355718	0.759887	1.030246	0.884788	1.132533	0.823016
939	2-linoleoylglycerophosphocholine*	1.221832	0.229996	0.528060	0.694372	1.005246	3.306186
202	2-methylbutyrylcarnitine	0.994122	1.280913	1.280844	1.029904	1.430659	0.715979
937	2-oleoylglycerophosphocholine*	1.015496	0.191712	0.351808	0.683406	0.837879	3.361709
930	2-palmitoylglycerophosphocholine*	1.189122	0.108070	0.343618	0.804478	0.960570	4.302079

	DARM-00025	DARM-00026	DARM-00027	DARM-00028	DARM-00029	DARM-00030	
	NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	
	997732	997735	997723	997728	997722	997744	
	991370	991371	991372	991373	991374	991375	
	NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	
	D28	D0	D7	C D14	D21	D28	
	1866	1866	1866	1866	1866	1866	
	T1 D28	C D0	C D7	C D14	C D21	C D28	
	155.949	177.522	181.946	180.175	185.286	186.197	
PATHWAY	T1 D28	C D0	C D7	C D14	C D21	C D28	
SORTORDER	BIOCHEMICAL NAME						
935	2-stearoylglycerophosphocholine*	1.071904	0.142354	0.142354	0.503256	0.579957	3.726528
821	3-dehydrocarnitine*	1.112274	0.902835	0.999223	0.985691	0.960373	0.956818
170	3-indoxyl sulfate	0.666928	0.604031	0.615128	0.532224	0.389686	0.720274
172	3-methyl-2-oxobutyrate	0.167871	1.492745	1.369522	1.331473	0.963997	0.869145
173	3-methyl-2-oxovalerate	0.486341	0.996945	1.003055	1.166572	1.063349	0.910344
529	3-phosphoglycerate	0.647234	1.177113	0.882247	0.807327	0.436468	0.391823
193	4-methyl-2-oxopentanoate	0.449847	1.070740	1.090726	1.196609	0.894189	0.765792
266	5-methylthioadenosine (MTA)	1.135995	0.433355	0.631642	1.003590	0.854859	0.941843
282	5-oxoproline	1.600759	0.187985	0.602352	0.977964	1.194557	1.410001
545	6-phosphogluconate	0.487973	1.565474	0.794300	0.467849	0.467849	0.467849
1024	7-beta-hydroxycholesterol	0.866651	0.666341	0.728016	1.146114	0.995509	0.459523
712.5	9,10-epoxyoctadec-12(Z)-enoic acid	1.720280	0.097580	0.679865	0.867279	1.228049	1.272163
672	9,10-epoxystearate	1.820843	0.057486	0.753563	0.940167	1.264035	1.214890
822	acetylcarnitine	1.080696	1.169595	1.123487	1.071160	1.080324	1.000358
601	acetylphosphate	1.118297	0.885714	0.898878	1.057195	0.821014	0.939531
1105	adenine	0.538223	1.228781	1.016980	0.744226	0.637906	0.576433
1106	adenosine	1.484763	1.519858	0.977006	0.997186	1.758229	0.934218
1116	adenosine 5'-diphosphate (ADP)	0.561842	1.144367	1.183384	1.041595	0.821974	0.580406
1232	adenosine 5'diphosphoribose	0.708303	0.862716	0.900600	0.803150	0.797305	0.643408
1114	adenosine 5'-monophosphate (AMP)	1.416475	0.782735	1.014159	1.210037	1.393270	1.260668
665	adrenate (22:4n6)	1.653082	0.472529	0.964801	0.866192	1.015034	1.199391
27	alanine	1.205319	0.999386	1.011664	1.222115	0.967846	1.076178
1150	allantoin	1.338042	1.943129	0.966256	0.421193	0.614564	0.949476
179	alpha-hydroxyisocaproate	1.767613	0.292412	0.292412	0.497329	0.810051	1.156211
198	alpha-hydroxyisovalerate	3.656355	0.558210	0.529065	0.758533	0.929130	1.172533
1266	alpha-tocopherol	1.013168	0.904921	0.692161	0.981713	0.568316	0.646692
1034	androsterone sulfate	1.383558	0.854975	1.245888	1.097636	1.010608	1.409117
566	arabinose	1.238260	0.836238	0.991687	0.973576	0.760419	0.742416
546	arabitol	1.807193	0.971075	0.772679	0.834015	0.734172	0.998135
1202	arabonate	0.825139	0.639898	1.012679	0.964548	0.658951	0.999669
659	arachidonate (20:4n6)	2.044924	0.846104	0.978080	1.005465	1.371726	1.095372
241	arginine	1.696769	0.576222	1.317440	1.745899	1.514322	0.569095
25	asparagine	1.289376	1.143792	0.995290	1.119770	0.782254	1.004710
24	aspartate	0.830984	0.667982	0.474023	0.627891	0.587960	0.753229

	DARM-00025	DARM-00026	DARM-00027	DARM-00028	DARM-00029	DARM-00030	
	NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	
	997732	997735	997723	997728	997722	997744	
	991370	991371	991372	991373	991374	991375	
	NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	
	D28	D0	D7	C D14	D21	D28	
	1866	1866	1866	1866	1866	1866	
	T1 D28	C D0	C D7	C D14	C D21	C D28	
	155.949	177.522	181.946	180.175	185.286	186.197	
PATHWAY	T1 D28	C D0	C D7	C D14	C D21	C D28	
SORTORDER	BIOCHEMICAL NAME						
721	azelate (nonanedioate)	1.838439	0.145765	0.453006	0.814958	1.152765	1.340694
26	beta-alanine	1.923831	1.530797	0.767572	0.839805	0.717139	1.777530
7	beta-hydroxypyruvate	1.016385	1.021221	0.827159	1.119480	0.499616	0.767661
22	betaine	1.333675	1.118360	1.082670	1.161894	1.093691	1.098355
1057	beta-sitosterol	1.139472	0.686697	1.093839	1.275950	0.861017	0.741912
1216	biliverdin	1.070354	0.565964	0.741221	0.522259	1.000000	1.436399
811	butrylcarnitine	0.841708	0.952815	1.455763	0.598389	1.058027	1.090460
1612	caffeine	1.196775	1.125601	1.108164	1.014405	1.000686	1.007368
1059	campesterol	1.872022	1.052831	0.725153	1.483716	1.394295	1.055198
622	caprate (10:0)	1.007579	0.532248	0.757435	1.097380	0.830727	0.736372
618	caproate (6:0)	0.462978	0.836562	0.844482	0.588986	0.537642	0.495527
620	caprylate (8:0)	0.760430	0.765345	0.888824	1.284749	0.905589	0.791654
820	carnitine	1.334424	1.089571	1.004525	1.132457	1.009443	1.127019
1300	catechol sulfate	1.037193	0.960727	0.968757	0.912922	0.931018	0.871487
164	C-glycosyltryptophan*	1.073840	1.083510	1.135640	1.101687	1.063441	1.089226
1020	cholesterol	1.155205	0.970677	0.898323	1.093240	0.794897	0.919676
881	choline	1.642235	1.430865	1.401498	1.467480	1.407785	1.347892
582	cis-aconitate	1.152070	0.682573	0.846721	0.908149	0.917629	0.814284
641	cis-vaccenate (18:1n7)	2.198575	1.211049	1.057250	0.986304	0.990184	1.301888
579	citrate	0.481910	1.038135	0.818767	0.805495	0.588418	0.503089
248	citruiline	0.999848	0.734952	0.696646	0.838719	0.752438	0.817569
259	creatine	1.221663	1.046839	1.065430	1.044015	1.031773	1.020537
260	creatinine	1.293007	1.043565	0.737654	0.820706	0.999497	0.998604
213	cysteine	1.407057	0.543762	0.749065	1.340087	1.105029	1.471856
819	deoxycarnitine	1.208492	1.025422	1.039724	1.022425	0.978811	0.943533
655	dihomo-linoleate (20:2n6)	1.946395	0.837818	1.410214	1.217187	1.747208	1.218597
609	dihomo-linolenate (20:3n3 or n6)	1.732804	0.894730	0.966922	1.041964	1.290825	0.828665
531	dihydroxyacetone phosphate (DHAP)	0.239333	0.507248	0.511241	0.239333	0.239333	0.337648
3	dimethylglycine	1.406961	1.287437	1.597749	1.231047	1.062675	1.477251
613	docosaheptaenoate (DHA; 22:6n3)	1.558157	0.699621	0.968683	0.936022	1.329143	0.871083
611	docosapentaenoate (n3 DPA; 22:5n3)	1.829772	0.598146	1.089808	1.069857	1.579700	1.256369
610	eicosapentaenoate (EPA; 20:5n3)	1.318244	0.846667	0.794184	0.856813	1.031976	1.013470

DARM-00025	DARM-00026	DARM-00027	DARM-00028	DARM-00029	DARM-00030
NHSCI 1866 T1 I	NHSCI 1866 C	NHSCI 1866 C I	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C
997732	997735	997723	997728	997722	997744
991370	991371	991372	991373	991374	991375
NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866	NHSCI 1866 C	NHSCI 1866 C
D28	D0	D7	C D14	D21	D28
1866	1866	1866	1866	1866	1866
T1 D28	C D0	C D7	C D14	C D21	C D28
155.949	177.522	181.946	180.175	185.286	186.197

PATHWAY

SORTORDER BIOCHEMICAL NAME

	T1 D28	C D0	C D7	C D14	C D21	C D28
1565 ergothioneine	1.386868	1.331635	1.263646	1.209918	1.218306	1.096833
735 erucamide	0.412254	2.048367	0.864038	1.366639	0.412254	1.679250
1632 erythritol	2.824399	0.565976	0.617972	0.946709	0.833464	1.015656
453 erythronate*	3.332240	0.811976	0.813199	0.965586	0.962365	1.306343
876 ethanolamine	1.369070	0.730151	0.515675	0.723090	0.566198	1.485089
472 fructose	1.499154	0.831481	0.887200	1.069168	0.904015	1.068746
524 fructose-6-phosphate	0.910504	1.110631	1.081938	1.276781	0.973879	0.908795
594 fumarate	1.659439	1.003627	1.230403	1.366010	1.243402	1.153230
404 gamma-glutamylleucine	0.671972	0.972415	0.861748	0.671972	0.941181	0.723008
521 glucose	1.073864	1.062467	0.963776	1.020154	0.865520	0.903436
519 glucose-6-phosphate (G6P)	1.078075	1.016150	1.054900	1.179862	1.009265	1.039973
39 glutamate	1.172528	1.135226	1.018940	1.149158	0.864379	0.955808
44 glutamine	0.708525	1.373010	1.189218	0.964980	0.821338	0.798523
80 glutaroyl carnitine	0.814561	1.073446	0.899838	1.049391	1.000000	1.261064
283 glutathione, oxidized (GSSG)	0.694916	1.302133	1.094876	0.887813	0.783689	1.011041
280 glutathione, reduced (GSH)	0.980108	1.150578	0.778673	1.077067	0.898670	0.864791
517 glycerate	11.667626	0.405735	0.793935	0.996228	1.143282	1.410938
882 glycerol 3-phosphate (G3P)	0.976814	1.240466	1.087626	1.075427	0.859943	0.605443
883 glycerophosphorylcholine (GPC)	1.235262	1.118117	0.941748	1.079808	0.982553	0.995264
1 glycine	1.437647	0.644370	0.776633	1.143726	1.050041	1.170692
851 glycochenodeoxycholate	2.172812	2.433296	2.047159	1.991974	1.813181	1.524434
840 glycocholate	1.326063	1.208381	1.218318	1.000000	1.043352	0.878028
849 glycodeoxycholate	1.388473	0.949834	0.751288	1.203790	0.968444	1.177614
1318 glycolate (hydroxyacetate)	1.119927	0.946077	0.890375	1.098857	0.819823	0.994096
1128 guanosine	0.673816	0.755494	0.774575	0.822097	0.746231	0.716737
1212 heme*	0.653546	0.095646	0.317162	0.958180	0.978704	4.653585
619 heptanoate (7:0)	0.595348	0.623683	0.693780	0.587462	0.609394	0.662417
823 hexanoylcarnitine	0.809135	1.645624	1.131565	0.690039	0.810615	0.840919
1288 hippurate	1.050381	0.898740	1.057115	0.934900	0.852371	0.889626
50 histidine	1.195045	0.866347	1.015573	1.047351	0.930853	0.873263

PATHWAY SORTORDER	BIOCHEMICAL NAME	DARM-00025	DARM-00026	DARM-00027	DARM-00028	DARM-00029	DARM-00030
		NHSCI 1866 T1 997732 991370	NHSCI 1866 C 997735 991371	NHSCI 1866 C 997723 991372	NHSCI 1866 C 997728 991373	NHSCI 1866 C 997722 991374	NHSCI 1866 C 997744 991375
		D28 1866 T1 D28 155.949	D0 1866 C D0 177.522	D7 1866 C D7 181.946	C D14 1866 C D14 180.175	D21 1866 C D21 185.286	D28 1866 C D28 186.197
		T1 D28	C D0	C D7	C D14	C D21	C D28
	231 homocysteine	2.202654	0.399736	0.490051	1.324761	1.078158	1.169184
	1585 homostachydrine*	1.025057	1.027667	0.676588	0.897241	0.659175	0.772919
	206 hydroxyisovaleroyl carnitine	1.394634	1.289270	1.381048	1.288663	1.243729	1.205365
	1098 hypoxanthine	6.127630	0.101341	0.083798	0.280312	0.883558	2.099629
	1101 inosine 5'-monophosphate (IMP) Isobar: fructose 1,6-diphosphate, glucose 1,6-	2.658472	0.463627	1.102380	1.971251	1.092462	1.112853
	527 diphosphate, myo-inositol 1,4 or 1,3-diphosphate	0.494691	0.902267	0.909041	0.844247	0.861112	0.577429
	561 Isobar: ribulose 5-phosphate, xylulose 5-phosphate	0.535723	0.876557	0.812388	0.909738	0.577133	0.670054
	496 Isobar: sorbitol, mannitol	0.996924	0.951858	0.969587	0.931073	0.942483	0.960446
	200 isobutyrylcarnitine	1.057582	1.016714	1.130305	0.959998	0.942708	0.884175
	180 isoleucine	1.428627	0.967821	1.004091	0.958783	0.925595	0.977112
	478 isomaltose	1.227936	1.012143	0.950239	0.959263	0.751023	0.865603
	205 isovalerylcarnitine	1.106746	1.088225	0.999515	1.112517	1.100029	0.861429
	144 kynurenine	0.976332	1.061583	1.020485	0.916273	1.159457	0.933957
	536 lactate	2.094846	0.218916	0.559940	0.989142	1.014542	1.206432
	1018 lathosterol	0.489776	0.489776	0.489776	0.627744	0.489776	0.489776
	625 laurate (12:0)	0.995648	0.862836	0.993126	1.121053	1.092028	0.922148
	181 leucine	1.455482	1.004502	1.013630	1.029515	0.979941	1.089607
	604 linoleate (18:2n6)	1.784699	0.934485	1.194274	1.172507	1.429780	1.029350
	608 linolenate [alpha or gamma; (18:3n3 or 6)]	1.402727	1.007750	0.937029	1.139813	1.144420	0.943566
	69 lysine	1.449671	0.983697	0.766798	0.955336	0.613590	1.257529
	598 malate	1.626989	0.670175	0.887241	1.181244	1.063635	1.451410
	482 maltose	1.215619	1.109761	0.921452	1.109842	0.878572	0.819446
	487 mannose	0.999108	1.042200	0.955978	1.081089	0.814603	0.861041
	489 mannose-6-phosphate	1.203799	0.908216	0.804798	1.025133	0.927659	1.043882
	635 margarate (17:0)	1.352060	0.672355	1.072389	0.969226	1.266985	0.905158

	DARM-00025	DARM-00026	DARM-00027	DARM-00028	DARM-00029	DARM-00030	
	NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	
	997732	997735	997723	997728	997722	997744	
	991370	991371	991372	991373	991374	991375	
	NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C	
	D28	D0	D7	C D14	D21	D28	
	1866	1866	1866	1866	1866	1866	
	T1 D28	C D0	C D7	C D14	C D21	C D28	
	155.949	177.522	181.946	180.175	185.286	186.197	
PATHWAY	T1 D28	C D0	C D7	C D14	C D21	C D28	
SORTORDER	BIOCHEMICAL NAME						
658	mead acid (20:3n9)	1.218585	1.172672	0.726815	1.091334	0.676024	0.425026
225	methionine	0.873652	1.491814	1.427271	1.016848	0.720229	0.655113
890	myo-inositol	1.215006	1.138390	0.941009	1.061353	0.841823	0.911860
629	myristate (14:0)	1.233155	0.551269	0.893466	1.002550	1.187990	0.929182
630	myristoleate (14:1n5)	0.493142	1.802446	0.705813	1.055310	1.180227	0.860889
1242.1	N1-Methyl-2-pyridone-5-carboxamide	0.919549	0.565019	0.827482	0.847894	0.367389	0.703122
75	N-6-trimethyllysine	1.276546	1.181597	1.756851	1.180948	1.400720	1.112876
4	N-acetylglycine	1.119319	0.929361	0.756931	0.745083	1.107049	1.113820
227	N-acetylmethionine	1.198684	1.151241	0.934098	1.216606	0.989625	1.000000
455	N-acetylneuraminic acid	1.937645	0.364520	0.452407	1.131994	1.036507	0.923535
1221	nicotinamide	1.128037	1.019320	0.946052	0.988162	1.015114	0.922631
1224	nicotinamide adenine dinucleotide (NAD+)	0.868102	0.997339	0.981609	1.035125	0.951168	1.944172
825	octanoylcarnitine	1.051807	1.065294	0.932738	0.977123	1.008875	0.999185
639	oleate (18:1n9)	1.528451	0.805042	0.887890	1.026755	0.951155	1.059180
835	oleoylcarnitine	2.779433	0.056114	0.407851	1.164793	1.584396	9.073618
285	ophthalmate	0.252181	3.902869	0.946024	0.535167	0.252181	0.252181
244	ornithine	1.196890	0.932498	0.797281	0.871167	0.661629	1.006229
632	palmitate (16:0)	1.301430	0.766287	1.007077	1.000387	1.152141	0.949563
633	palmitoleate (16:1n7)	1.278836	0.956717	1.146023	0.841215	1.020416	0.718337
1004	palmitoyl sphingomyelin	1.133156	1.008461	0.935966	1.066178	0.751650	0.901174
833	palmitoylcarnitine	2.010902	0.059115	0.524652	0.915916	1.110798	8.697425
1243	pantothenate	1.069212	0.907531	0.920280	0.920629	1.398636	0.942652
1613	paraxanthine	1.085177	0.948751	0.837932	0.881288	0.864666	0.852477
88	p-cresol sulfate	0.789020	0.770020	0.769045	0.725472	0.715997	0.667300
621	pelargonate (9:0)	0.837061	0.360075	0.700338	0.768938	0.741228	0.599953
631	pentadecanoate (15:0)	1.419314	0.712829	1.024571	1.086036	1.357093	1.003934
135	phenol sulfate	1.080150	1.039700	0.860615	1.076993	0.978846	0.785161
128	phenylacetylglutamine	0.680346	0.604740	0.665487	0.688121	0.667230	0.693889
83	phenylalanine	1.132419	0.804835	0.876091	0.877652	0.881666	0.938853
602	phosphate	1.110857	0.946588	0.949372	1.190405	0.944489	1.020523
534	phosphoenolpyruvate (PEP)	0.279542	2.330041	1.000000	0.575670	0.181336	0.155305
877	phosphoethanolamine	0.712319	0.593700	0.593700	0.593700	0.593700	0.593700

PATHWAY	DARM-00025 DARM-00026 DARM-00027 DARM-00028 DARM-00029 DARM-00030						
	NHSCI 1866 T1 I NHSCI 1866 C NHSCI 1866 C I NHSCI 1866 C NHSCI 1866 C NHSCI 1866 C						
SORTORDER	BIOCHEMICAL NAME	997732	997735	997723	997728	997722	997744
		991370	991371	991372	991373	991374	991375
		NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866	NHSCI 1866 C	NHSCI 1866 C
		D28	D0	D7	C D14	D21	D28
		1866	1866	1866	1866	1866	1866
		T1 D28	C D0	C D7	C D14	C D21	C D28
		155.949	177.522	181.946	180.175	185.286	186.197
		T1 D28	C D0	C D7	C D14	C D21	C D28
74	pipecolate	1.009720	0.898390	0.815539	0.821096	0.873731	0.997796
1531	piperine	0.958771	1.319098	1.470407	1.615822	0.782269	0.825044
246	proline	1.195957	0.942258	1.033618	0.983038	1.045444	0.978514
809	propionylcarnitine	1.063614	1.457202	1.446774	1.233793	1.105600	1.125514
1181	pseudouridine	1.128058	1.095967	0.810404	0.638275	0.790413	0.999677
45	pyroglutamine*	1.601902	1.262071	1.827425	1.304051	1.359677	1.632543
603	pyrophosphate (PPi)	0.761614	1.243354	1.085167	0.990363	0.285513	0.794945
535	pyruvate	4.683874	2.276982	1.490731	0.710654	0.596456	0.493004
1469	ranitidine	0.811072	0.811072	0.811072	0.811072	0.811072	0.811072
548	ribitol	8.146637	0.742077	0.821356	0.652676	0.652824	1.041283
557	ribose 5-phosphate	0.609062	0.758696	0.754124	1.146996	1.109373	0.461602
559	ribulose	2.586649	0.240496	0.824892	1.085540	0.912667	1.285401
224	S-adenosylhomocysteine (SAH)	1.306917	0.665980	1.038199	1.065144	1.192103	1.081832
551	sedoheptulose-7-phosphate	1.663972	0.882284	0.561685	0.753922	1.195141	2.407375
8	serine	1.464692	0.968525	0.965250	1.198912	0.926531	1.074484
216	S-methylcysteine	0.731956	0.453662	0.457515	0.823196	0.438733	0.633290
281	S-methylglutathione	0.811779	0.856518	1.097021	0.837567	1.002890	1.572077
270	spermidine	1.260416	1.050133	1.067759	1.135426	1.152412	1.121663
1584	stachydrine	2.395504	2.159253	2.096279	2.038510	1.981464	2.006947
637	stearate (18:0)	1.289608	0.685765	0.988116	0.976713	1.131377	0.956837
1005	stearoyl sphingomyelin	1.077618	0.861948	0.762315	0.861358	0.889997	0.750174
834	stearoylcarnitine	1.762390	0.056108	0.283844	0.924164	1.141065	6.515597
591	succinylcarnitine	1.623486	1.094559	1.165168	1.233136	1.269955	1.269939
1662	terephthalic acid	1.158495	1.296798	1.150642	1.012059	1.056469	1.091768
1614	theobromine	1.074257	0.671401	0.864160	0.825930	0.888004	0.649509
1615	theophylline	1.151086	1.300377	1.238272	0.774866	1.379035	0.624518
549	threitol	1.245565	0.590636	0.676204	0.890473	0.657034	0.823696
1199	threonate	1.293257	0.923661	0.782371	0.869069	0.804530	0.717342
17	threonine	1.551739	0.972354	0.912796	1.029784	1.131052	1.200651
252	trans-4-hydroxyproline	0.773043	0.683168	0.753799	0.801991	0.796526	0.663000

	DARM-00025	DARM-00026	DARM-00027	DARM-00028	DARM-00029	DARM-00030
	NHSCI 1866 T1 I	NHSCI 1866 C	NHSCI 1866 C I	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866 C
	997732	997735	997723	997728	997722	997744
	991370	991371	991372	991373	991374	991375
	NHSCI 1866 T1	NHSCI 1866 C	NHSCI 1866 C	NHSCI 1866	NHSCI 1866 C	NHSCI 1866 C
	D28	D0	D7	C D14	D21	D28
	1866	1866	1866	1866	1866	1866
	T1 D28	C D0	C D7	C D14	C D21	C D28
	155.949	177.522	181.946	180.175	185.286	186.197
	T1 D28	C D0	C D7	C D14	C D21	C D28

PATHWAY

SORTORDER BIOCHEMICAL NAME

501 trehalose	1.534496	0.202847	0.589175	1.247912	0.961607	1.668020
1242 trigonelline (N'-methylnicotinate)	1.405095	1.311146	1.197020	1.208728	1.239240	1.197533
145 tryptophan	1.112154	0.904279	0.839975	0.924663	0.888689	0.905762
151 tryptophan betaine	1.763188	1.536409	1.481729	1.504200	1.433442	1.418162
99 tyrosine	1.238953	1.068877	1.011654	1.067225	1.012833	1.136778
1149 urate	0.925810	1.211955	1.081120	0.996417	0.958618	0.770822
245 urea	1.080118	0.904948	0.786405	0.905784	0.770561	0.826782
1180 uridine	1.462895	0.770914	0.875236	1.017241	1.177429	1.186555
190 valine	1.224885	0.998034	0.979434	1.049638	1.002854	1.053645
565 xylitol	1.069224	0.127693	0.127693	0.136454	0.127693	0.127693
570 xylonate	1.012615	0.764882	0.768001	1.025344	0.723918	0.911486
569 xylose	4.831216	1.249813	1.338657	1.007424	0.405368	0.755134

Shaded cells indicate $p \leq 0.05$ (red=higher green=lower blue-bold $0.05 < p < 0.10$)

T1: anaerobic T2: +CO2

PATHWAY SORT	SUPER PATHWAY	SUB PATHWAY	BIOCHEMICAL NAME	Kegg	HMDB	T1-0 C-0
1	Amino acid	Glycine, serine and threonine metabolism	glycine	C00037	HMDB00123	0.96
3			dimethylglycine	C01026	HMDB00092	0.75
4			N-acetylglycine		HMDB00532	0.76
7			beta-hydroxypyruvate	C00168	HMDB01352	0.86
8			serine	C00065	HMDB03406	0.96
17			threonine	C00188	HMDB00167	1.01
22			betaine		HMDB00043	1.01
24			aspartate	C00049	HMDB00191	1.09
25			asparagine	C00152	HMDB00168	1.03
26		beta-alanine	C00099	HMDB00056	0.77	
27		alanine	C00041	HMDB00161	0.85	
39		Glutamate metabolism	glutamate	C00025	HMDB03339	1.06
44			glutamine	C00064	HMDB00641	1.01
45			pyroglutamine*			1.02
50		Histidine metabolism	histidine	C00135	HMDB00177	1.31
69		Lysine metabolism	lysine	C00047	HMDB00182	1.01
74			pipecolate	C00408	HMDB00070	0.90
75			N-6-trimethyllysine	C03793	HMDB01325	1.07
80			glutaroyl carnitine		HMDB13130	0.90
83		Phenylalanine & tyrosine metabolism	phenylalanine	C00079	HMDB00159	1.06
88			p-cresol sulfate	C01468		0.93
99			tyrosine	C00082	HMDB00158	1.04
128			phenylacetylglutamine	C05597	HMDB06344	1.08
135			phenol sulfate	C02180		1.02
144		Tryptophan metabolism	kynurenine	C00328	HMDB00684	1.15
145			tryptophan	C00078	HMDB00929	0.99
151			tryptophan betaine	C09213		0.91
164			C-glycosyltryptophan*			0.96
170			3-indoxyl sulfate		HMDB00682	0.93
172			3-methyl-2-oxobutyrate	C00141	HMDB00019	0.42
173		3-methyl-2-oxovalerate	C00671	HMDB03736	0.82	
179		alpha-hydroxyisocaproate	C03264	HMDB00746	1.00	
180		isoleucine	C00407	HMDB00172	1.06	
181		leucine	C00123	HMDB00687	0.98	
190	Valine, leucine and isoleucine metabolism	valine	C00183	HMDB00883	1.04	
193		4-methyl-2-oxopentanoate	C00233	HMDB00695	0.79	
198		alpha-hydroxyisovalerate		HMDB00407	1.44	
200		isobutyrylcarnitine			1.06	
202		2-methylbutyrylcarnitine		HMDB00378	0.88	
205		isovalerylcarnitine		HMDB00688	0.93	
206		hydroxyisovaleroyl carnitine			0.97	

Shaded cells indicate $p \leq 0.05$ (red=higher green=lower blue-bold $0.05 < p < 0.10$)

T1: anaerobic T2: +CO2

PATHWAY SORT	SUPER PATHWAY	SUB PATHWAY	BIOCHEMICAL NAME	Kegg	HMDB	T1-0 C-0	
213		Cysteine, methionine, SAM, taurine metabolism	cysteine	C00097	HMDB00574	0.79	
216			S-methylcysteine		HMDB02108	0.83	
224			S-adenosylhomocysteine (SAH)	C00021	HMDB00939	0.99	
225			methionine	C00073	HMDB00696	1.09	
227			N-acetylmethionine	C02712	HMDB11745	0.86	
229			2-hydroxybutyrate (AHB)	C05984	HMDB00008	1.05	
231			homocysteine	C00155	HMDB00742	0.73	
241			Urea cycle; arginine-, proline-, metabolism	arginine	C00062	HMDB00517	1.28
244				ornithine	C00077	HMDB03374	0.88
245				urea	C00086	HMDB00294	0.92
246		proline		C00148	HMDB00162	0.94	
248		citrulline		C00327	HMDB00904	1.14	
252		trans-4-hydroxyproline	C01157	HMDB00725	0.98		
259		Creatine metabolism	creatine	C00300	HMDB00064	0.98	
260			creatinine	C00791	HMDB00562	0.98	
263		Butanoate metabolism	2-aminobutyrate	C02261	HMDB00650	0.88	
266		Polyamine metabolism	5-methylthioadenosine (MTA)	C00170	HMDB01173	1.06	
270			spermidine	C00315	HMDB01257	0.96	
280		Glutathione metabolism	glutathione, reduced (GSH)	C00051	HMDB00125	1.05	
281			S-methylglutathione	C11347		1.13	
282			5-oxoproline	C01879	HMDB00267	1.05	
283			glutathione, oxidized (GSSG)	C00127	HMDB03337	1.08	
285			ophthalmate		HMDB05765	1.20	
404			Peptide	gamma-glutamyl	gamma-glutamylleucine		HMDB11171
453			Aminosugars metabolism	erythronate*		HMDB00613	0.81
455				N-acetylneuramate	C00270	HMDB00230	1.20
472			Fructose, mannose, galactose, starch, and sucrose metabolism	fructose	C00095	HMDB00660	0.84
478				isomaltose	C00252	HMDB02923	1.41
482	maltose			C00208	HMDB00163	0.77	
487	mannose			C00159	HMDB00169	0.92	
489	mannose-6-phosphate			C00275	HMDB01078	0.50	
496	Isobar: sorbitol, mannitol			C00392,C01722,C01697,C01489,C00794,C01507	HMDB00247	1.14	
501	trehalose			C01083	HMDB00975	1.09	

Shaded cells indicate $p \leq 0.05$ (red=higher green=lower blue-bold $0.05 < p < 0.10$)

T1: anaerobic T2: +CO2

PATHWAY SORT	SUPER PATHWAY	SUB PATHWAY	BIOCHEMICAL NAME	Kegg	HMDB	T1-0 C-0	
515	Carbohydrate	Glycolysis, gluconeogenesis, pyruvate metabolism	1,5-anhydroglucitol (1,5-AG)	C07326	HMDB02712	0.96	
517			glycerate	C00258	HMDB00139	1.21	
519			glucose-6-phosphate (G6P)	C00668	HMDB01401	0.17	
521			glucose	C00293	HMDB00122	0.93	
523			1,6-anhydroglucose		HMDB00640	0.66	
524			fructose-6-phosphate	C05345	HMDB00124	0.43	
527			Isobar: fructose 1,6-diphosphate, glucose 1,6-diphosphate, myo-inositol 1,4 or 1,3-diphosphate			4.26	
529			3-phosphoglycerate	C00597	HMDB00807	1.98	
531			dihydroxyacetone phosphate (DHAP)	C00111	HMDB01473	29.69	
532			1,3-dihydroxyacetone	C00184	HMDB01882	1.06	
533			2,3-diphosphoglycerate	C01159	HMDB01294	1.50	
534			phosphoenolpyruvate (PEP)	C00074	HMDB00263	1.54	
535			pyruvate	C00022	HMDB00243	0.03	
536			lactate	C00186	HMDB00190	1.44	
545			Nucleotide sugars, pentose metabolism	6-phosphogluconate	C00345	HMDB01316	0.33
546				arabitol	C00474	HMDB01851	0.86
548				ribitol	C00474	HMDB00508	0.93
549				threitol	C16884	HMDB04136	1.08
551		sedoheptulose-7-phosphate		C05382	HMDB01068	0.13	
557		ribose 5-phosphate		C00117	HMDB00618	1.91	
559		ribulose		C00309	HMDB00021, HMDB02374	4.96	
561		Isobar: ribulose 5-phosphate, xylulose 5-phosphate				3.42	
565		xylitol		C00379	HMDB00568	1.00	
566		arabinose		C00181	HMDB00646	0.97	
569		xylose	C00181	HMDB00098	0.63		

Shaded cells indicate p≤0.05 (red=higher green=lower blue-bold 0.05<p<0.10)

T1: anaerobic T2: +CO2

PATHWAY SORT	SUPER PATHWAY	SUB PATHWAY	BIOCHEMICAL NAME	Kegg	HMDB	T1-0 C-0
570			xylonate	C00502_C05411		1.55
579	Energy	Krebs cycle	citrate	C00158	HMDB00094	0.94
582			cis-aconitate	C00417	HMDB00072	0.98
591			succinylcarnitine			0.95
594			fumarate	C00122	HMDB00134	0.80
598			malate	C00149	HMDB00156	0.82
601			Oxidative phosphorylation	acetylphosphate	C00227	HMDB01494
602		phosphate		C00009	HMDB01429	0.76
603		pyrophosphate (PPi)		C00013	HMDB00250	1.39
604		linoleate (18:2n6)		C01595	HMDB00673	0.92
608		Essential fatty acid	linolenate [alpha or gamma; (18:3n3 or 6)]	C06427	HMDB01388	1.19
609	dihomo-linolenate (20:3n3 or n6)		C03242	HMDB02925	0.98	
610	eicosapentaenoate (EPA; 20:5n3)		C06428	HMDB01999	1.29	
611	docosapentaenoate (n3 DPA; 22:5n3)		C16513	HMDB01976	1.14	
613	docosahexaenoate (DHA; 22:6n3)		C06429	HMDB02183	1.08	
618	Medium chain fatty acid		caproate (6:0)	C01585	HMDB00535	0.85
619			heptanoate (7:0)	C17714	HMDB00666	1.03
620			caprylate (8:0)	C06423	HMDB00482	0.77
621		pelargonate (9:0)	C01601	HMDB00847	1.05	
622		caprate (10:0)	C01571	HMDB00511	0.98	
625		laurate (12:0)	C02679	HMDB00638	1.07	
629		Long chain fatty acid	myristate (14:0)	C06424	HMDB00806	0.93
630	myristoleate (14:1n5)		C08322	HMDB02000	0.49	
631	pentadecanoate (15:0)		C16537	HMDB00826	1.06	
632	palmitate (16:0)		C00249	HMDB00220	0.93	
633	palmitoleate (16:1n7)		C08362	HMDB03229	1.00	
635	margarate (17:0)			HMDB02259	1.03	
636	10-heptadecenoate (17:1n7)				1.06	
637	stearate (18:0)		C01530	HMDB00827	0.97	
639	oleate (18:1n9)		C00712	HMDB00207	0.91	
641	cis-vaccenate (18:1n7)		C08367		0.83	
655	dihomo-linoleate (20:2n6)		C16525		0.96	
658	mead acid (20:3n9)			HMDB10378	0.62	
659	arachidonate (20:4n6)		C00219	HMDB01043	1.04	
665	adrenate (22:4n6)		C16527	HMDB02226	1.00	
670.01			9,10-epoxyoctadec-12(Z)-enoic acid	C14825	HMDB04701	0.98
672	Fatty acid, oxidized		9,10-epoxystearate			0.87
706	Fatty acid, monohydroxy		2-hydroxypalmitate			0.60
714	Fatty acid, dicarboxylate	2-hydroxyglutarate	C02630	HMDB00606	0.94	
721		azelate (nonanedioate)	C08261	HMDB00784	1.27	
735	Fatty acid, amide	erucamide			1.18	

Shaded cells indicate p≤0.05 (red=higher green=lower blue-bold 0.05<p<0.10)

T1: anaerobic T2: +CO2

PATHWAY SORT	SUPER PATHWAY	SUB PATHWAY	BIOCHEMICAL NAME	Kegg	HMDB	T1-0 C-0	
742	Lipid	Fatty acid, branched	13-methylmyristic acid			0.90	
744			15-methylpalmitate (isobar with 2-methylpalmitate)			1.01	
809		Fatty acid metabolism (also BCAA metabolism)	propionylcarnitine	C03017	HMDB00824	0.97	
811			butyrylcarnitine			1.39	
819		Carnitine metabolism		deoxycarnitine	C01181	HMDB01161	1.03
820				carnitine			1.07
821				3-dehydrocarnitine*	C02636	HMDB12154	1.05
822				acetylcarnitine	C02571	HMDB00201	0.95
823				hexanoylcarnitine	C01585	HMDB00705	0.72
825				octanoylcarnitine			0.89
833				palmitoylcarnitine			4.95
834				stearoylcarnitine		HMDB00848	2.33
835				oleoylcarnitine		HMDB05065	3.40
840				Bile acid metabolism		glycocholate	C01921
849		glycodeoxycholate	C05464			HMDB00631	0.85
851		glycochenodeoxycholate	C05466			HMDB00637	0.78
876		Glycerolipid metabolism		ethanolamine	C00189	HMDB00149	0.88
877				phosphoethanolamine	C00346	HMDB00224	2.29
881				choline			1.03
882				glycerol 3-phosphate (G3P)	C00093	HMDB00126	2.58
883				glycerophosphorylcholine (GPC)	C00670	HMDB00086	0.90
890		Inositol metabolism		myo-inositol	C00137	HMDB00211	0.98
905		Ketone bodies		1,2-propanediol	C00717,C02912,C00583,C01506,C02917	HMDB01881	0.89
909		Lysolipid		1-palmitoylglycerophosphoethanolamine		HMDB11503	0.44
915				1-oleoylglycerophosphoethanolamine		HMDB11506	0.62
919				1-arachidonoylglycerophosphoethanolamine*		HMDB11517	0.53
920				2-arachidonoylglycerophosphoethanolamine*			2.90
922				2-docosapentaenoylglycerophosphoethanolamine*			2.70
923				2-docosahexaenoylglycerophosphoethanolamine*			2.09
926				1-myristoylglycerophosphocholine		HMDB10379	1.00
929				1-palmitoylglycerophosphocholine			2.76
930				2-palmitoylglycerophosphocholine*			1.05
934				1-stearoylglycerophosphocholine			2.34
935				2-stearoylglycerophosphocholine*			1.00
936				1-oleoylglycerophosphocholine			2.32
937				2-oleoylglycerophosphocholine*			1.66
938				1-linoleoylglycerophosphocholine	C04100		0.75
939				2-linoleoylglycerophosphocholine*			1.00

Shaded cells indicate $p \leq 0.05$ (red=higher green=lower blue-bold $0.05 < p < 0.10$)

T1: anaerobic T2: +CO2

PATHWAY SORT	SUPER PATHWAY	SUB PATHWAY	BIOCHEMICAL NAME	Kegg	HMDB	T1-0 C-0	
945			2-arachidonoylglycerophosphocholine*			1.78	
970		Monoacylglycerol	1-palmitoylglycerol (1-monopalmitin)			0.82	
1004		Sphingolipid	palmitoyl sphingomyelin			0.85	
1005	stearyl sphingomyelin		C00550	HMDB01348	0.92		
1018		Sterol/Steroid	lathosterol	C01189	HMDB01170	0.70	
1020	cholesterol		C00187	HMDB00067	0.94		
1024	7-beta-hydroxycholesterol		C03594	HMDB06119	1.20		
1034	androsterone sulfate		C00523	HMDB02759	1.25		
1057	beta-sitosterol		C01753	HMDB00852	1.48		
1059	campesterol		C01789	HMDB02869	1.03		
1098			Purine metabolism, (hypo)xanthine/inosine containing	hypoxanthine	C00262	HMDB00157	0.91
1101	inosine 5'-monophosphate (IMP)	C00130		HMDB00175	1.10		
1105		Purine metabolism, adenine containing	adenine	C00147	HMDB00034	0.93	
1106	adenosine		C00212	HMDB00050	0.64		
1114	adenosine 5'-monophosphate (AMP)		C00020	HMDB00045	1.19		
1116	adenosine 5'-diphosphate (ADP)		C00008	HMDB01341	1.05		
1128		Purine metabolism, guanine containing	guanosine	C00387	HMDB00133	1.20	
1149		Purine metabolism, urate metabolism	urate	C00366	HMDB00289	0.96	
1150	allantoin		C02350	HMDB00462	0.62		
1180		Pyrimidine metabolism, uracil containing	uridine	C00299	HMDB00296	1.15	
1181	pseudouridine		C02067	HMDB00767	0.64		
1199		Ascorbate and aldarate metabolism	threonate	C01620	HMDB00943	0.83	
1202	arabonate			HMDB00539	1.12		
1212		Hemoglobin and porphyrin metabolism	heme*			3.72	
1216	biliverdin		C00500	HMDB01008	0.99		
1221		Cofactors and vitamins	nicotinamide	C00153	HMDB01406	0.87	
1224	nicotinamide adenine dinucleotide (NAD+)		C00003	HMDB00902	2.14		
1232			Nicotinate and nicotinamide metabolism	adenosine 5'diphosphoribose	C00301	HMDB01178	1.08
1242	trigonelline (N'-methylnicotinate)				HMDB00875	0.97	

Shaded cells indicate $p \leq 0.05$ (red=higher green=lower blue-bold $0.05 < p < 0.10$)

T1: anaerobic T2: +CO2

PATHWAY SORT	SUPER PATHWAY	SUB PATHWAY	BIOCHEMICAL NAME	Kegg	HMDB	T1-0 C-0
1242.1			N1-Methyl-2-pyridone-5-carboxamide	C05842	HMDB04193	1.14
1243		Pantothenate and CoA metabolism	pantothenate	C00864	HMDB00210	0.99
1266		Tocopherol metabolism	alpha-tocopherol	C02477	HMDB01893	0.71
1288	Xenobiotics	Benzoate metabolism	hippurate	C01586	HMDB00714	0.99
1300			catechol sulfate	C00090		1.02
1318			glycolate (hydroxyacetate)	C00160	HMDB00115	0.87
1360		Chemical	2-ethylhexanoate (isobar with 2-propylpentanoate)			0.89
1469		Drug	ranitidine	422	HMDB01930	0.97
1531		Food component/Plant	piperine	C03882		0.76
1565			ergothioneine	C05570	HMDB03045	0.87
1584			stachydrine	C10172	HMDB04827	0.90
1585			homostachydrine*	C08283		1.04
1612		Xanthine metabolism	caffeine	C07481	HMDB01847	0.93
1613			paraxanthine	C13747	HMDB01860	1.02
1614			theobromine	C07480	HMDB02825	0.97
1615			theophylline	C07130	HMDB01889	0.90
1632		Sugar, sugar substitute, starch	erythritol	C00503	HMDB02994	0.99
1662		Phthalate	terephthalic acid	C06337	HMDB02428	0.84

PATHWAY SORT	ANVOA Contrasts				ANVOA Contrasts					ANVOA Contrasts			
	T1-7 C-7	T1-14 C-14	T1-21 C-21	T1-28 C-28	T2-0 C-0	T2-7 C-7	T2-14 C-14	T2-21 C-21	T2-28 C-28	T2-0 T1-0	T2-7 T1-7	T2-14 T1-14	T2-21 T1-21
1	1.08	0.77	1.03	1.04	1.03	1.06	0.96	1.02	1.23	1.07	0.98	1.25	0.99
3	0.85	1.03	0.74	0.79	0.81	0.88	0.89	1.39	0.91	1.07	1.04	0.86	1.88
4	1.04	0.86	1.13	1.22	0.76	0.78	1.24	0.81	0.99	1.00	0.75	1.44	0.72
7	1.18	0.94	1.19	1.07	0.86	1.09	1.00	0.89	1.17	1.01	0.92	1.07	0.75
8	1.20	0.97	1.37	1.23	1.04	1.14	0.95	1.05	1.01	1.08	0.95	0.98	0.77
17	1.28	1.27	1.06	1.13	1.05	1.28	1.21	0.91	1.02	1.04	1.00	0.95	0.86
22	1.14	1.08	1.09	1.12	1.01	0.98	1.01	0.90	0.95	1.00	0.86	0.94	0.83
24	1.38	1.22	1.53	1.09	0.93	0.88	0.93	1.07	0.88	0.85	0.64	0.76	0.70
25	1.25	0.94	1.36	1.20	1.13	1.17	1.03	1.17	0.88	1.09	0.94	1.09	0.86
26	1.23	1.10	1.98	1.06	1.02	1.47	1.48	1.85	0.47	1.32	1.20	1.35	0.94
27	0.96	0.73	1.06	0.97	1.02	1.06	0.96	1.05	1.06	1.20	1.11	1.31	0.99
39	1.37	0.93	1.19	1.12	1.01	1.08	1.01	1.07	1.26	0.96	0.79	1.09	0.90
44	0.90	0.87	0.80	0.83	1.05	1.01	1.07	1.03	0.98	1.04	1.12	1.23	1.29
45	1.04	1.10	1.17	1.06	1.17	1.02	0.99	0.95	1.04	1.15	0.98	0.90	0.82
50	1.01	0.98	1.42	1.28	1.17	1.07	0.98	1.09	1.12	0.89	1.06	1.00	0.77
69	1.18	0.86	1.75	1.55	1.09	1.20	0.81	1.75	0.96	1.08	1.02	0.93	1.00
74	1.08	1.11	1.00	0.99	0.99	1.00	0.89	0.94	1.00	1.11	0.92	0.80	0.94
75	0.76	0.91	0.88	1.04	1.12	0.74	0.93	0.87	0.90	1.04	0.96	1.02	0.99
80	0.74	1.20	0.87	0.59	1.35	1.17	0.92	0.71	0.70	1.50	1.58	0.76	0.81
83	1.17	1.12	1.07	1.11	1.10	1.00	1.11	0.99	0.98	1.04	0.85	0.99	0.92
88	1.07	0.93	1.13	1.05	1.08	1.01	0.95	0.89	1.03	1.16	0.94	1.02	0.79
99	1.18	1.10	1.06	1.13	1.06	1.01	1.09	0.99	1.06	1.02	0.85	0.99	0.93
128	1.22	0.99	1.09	0.94	1.21	1.02	0.97	0.94	1.05	1.13	0.83	0.98	0.86
135	1.23	0.92	0.89	1.18	1.09	1.15	0.88	0.77	1.09	1.07	0.94	0.96	0.87
144	1.29	1.35	0.98	1.05	0.93	1.14	1.10	1.01	0.93	0.81	0.88	0.81	1.03
145	1.21	1.08	1.09	1.12	1.12	1.07	1.08	1.01	0.99	1.13	0.88	1.00	0.93
151	1.10	0.96	1.07	1.16	1.09	1.10	1.00	0.90	1.09	1.19	1.00	1.04	0.84
164	0.86	0.93	0.91	0.84	1.04	0.83	1.19	0.92	0.78	1.08	0.96	1.28	1.01
170	0.96	1.02	1.33	0.94	1.29	0.99	0.98	1.19	1.13	1.39	1.03	0.96	0.89
172	0.20	0.13	0.17	0.27	0.93	1.23	1.03	0.71	0.95	2.23	6.06	8.18	4.10
173	0.49	0.22	0.25	0.34	1.09	1.01	0.92	0.89	1.04	1.34	2.09	4.16	3.60
179	2.80	2.20	1.42	1.19	1.00	1.00	1.00	0.96	1.22	1.00	0.36	0.46	0.67
180	1.33	1.33	1.38	1.32	1.11	0.97	1.04	1.00	1.04	1.04	0.73	0.78	0.72
181	1.31	1.22	1.35	1.23	1.08	1.04	1.03	1.01	1.09	1.10	0.80	0.84	0.75
190	1.18	1.07	1.09	1.09	1.09	1.07	1.10	0.96	1.02	1.05	0.90	1.03	0.88
193	0.42	0.18	0.27	0.38	1.20	1.17	1.10	0.88	1.12	1.50	2.77	6.13	3.27
198	3.79	3.11	3.27	2.58	1.15	1.00	0.86	0.91	1.13	0.80	0.26	0.28	0.28
200	1.02	0.99	1.05	0.99	1.18	1.09	1.13	0.92	1.03	1.11	1.07	1.14	0.88
202	0.83	0.58	0.85	0.97	0.96	0.86	0.88	0.70	1.23	1.10	1.05	1.51	0.82
205	1.10	0.87	0.98	1.08	0.99	0.96	0.81	0.83	1.13	1.06	0.87	0.93	0.84
206	1.06	0.98	1.04	1.09	1.23	0.99	1.01	0.95	1.08	1.27	0.93	1.03	0.92

PATHWAY SORT	ANOVA Contrasts				ANOVA Contrasts					ANOVA Contrasts			
	T1-7 C-7	T1-14 C-14	T1-21 C-21	T1-28 C-28	T2-0 C-0	T2-7 C-7	T2-14 C-14	T2-21 C-21	T2-28 C-28	T2-0 T1-0	T2-7 T1-7	T2-14 T1-14	T2-21 T1-21
213	0.66	0.73	1.21	0.88	0.98	0.89	0.92	1.29	1.12	1.24	1.34	1.26	1.07
216	0.80	0.83	1.43	1.09	1.06	0.84	0.68	1.17	1.01	1.28	1.05	0.82	0.82
224	1.01	0.93	0.78	0.99	1.15	1.07	0.94	0.72	1.08	1.16	1.06	1.02	0.91
225	1.02	1.08	1.02	1.14	1.13	0.98	1.11	0.93	1.09	1.03	0.96	1.03	0.91
227	1.28	0.76	1.06	0.94	1.14	1.07	0.76	1.01	0.98	1.32	0.83	1.00	0.95
229	1.15	0.96	1.27	1.00	1.03	1.05	0.97	1.08	0.93	0.98	0.91	1.02	0.85
231	0.77	1.24	1.54	1.25	0.58	0.59	0.80	0.92	0.77	0.79	0.76	0.64	0.60
241	1.06	0.81	0.77	1.44	1.36	0.77	0.69	0.45	2.07	1.06	0.73	0.86	0.59
244	1.12	0.99	1.55	1.15	1.02	1.13	1.06	1.29	0.82	1.16	1.02	1.07	0.83
245	1.17	0.95	1.28	1.10	1.02	1.06	1.03	1.03	0.99	1.10	0.90	1.09	0.80
246	1.05	0.94	1.09	1.10	1.09	1.11	0.95	0.88	1.10	1.15	1.06	1.01	0.81
248	1.08	1.01	1.08	1.14	1.09	1.08	0.96	0.95	1.01	0.96	1.00	0.95	0.88
252	1.06	1.17	0.98	1.06	1.17	0.89	0.94	1.03	0.96	1.20	0.84	0.80	1.05
259	1.09	1.01	1.06	1.07	1.10	1.06	1.00	0.90	1.02	1.12	0.97	0.99	0.85
260	1.22	1.16	1.08	1.17	1.00	1.43	1.07	1.00	0.96	1.02	1.17	0.92	0.92
263	1.09	0.93	1.30	1.19	0.92	1.15	0.97	1.13	1.01	1.05	1.05	1.05	0.87
266	1.49	1.38	1.27	1.14	1.14	1.15	1.23	1.24	1.05	1.07	0.78	0.89	0.98
270	1.05	0.93	0.95	0.97	1.11	1.09	1.06	0.88	1.01	1.16	1.03	1.14	0.93
280	1.02	0.98	0.89	0.93	1.11	0.90	1.07	0.97	0.90	1.06	0.88	1.10	1.08
281	1.33	1.48	1.03	0.59	1.15	1.13	1.01	1.09	0.68	1.02	0.85	0.68	1.06
282	1.49	1.24	1.29	1.09	1.05	1.09	1.05	1.00	1.26	1.00	0.73	0.85	0.77
283	0.99	0.93	0.91	0.79	1.07	0.93	1.01	0.97	0.88	0.99	0.94	1.09	1.07
285	2.19	1.75	1.43	1.00	1.09	1.23	0.88	1.13	1.00	0.91	0.56	0.50	0.79
404	1.33	1.44	1.10	1.12	1.30	0.84	1.06	0.93	1.06	1.11	0.63	0.74	0.85
453	1.43	1.68	3.18	2.48	0.87	1.06	0.98	1.01	0.94	1.08	0.74	0.58	0.32
455	1.84	0.64	1.58	1.44	1.24	1.38	0.79	1.06	0.76	1.04	0.75	1.23	0.67
472	0.74	0.63	1.24	1.23	1.02	1.03	0.94	1.04	0.91	1.20	1.38	1.51	0.84
478	1.47	0.72	1.23	1.09	1.06	1.36	0.91	1.02	0.90	0.75	0.93	1.26	0.83
482	1.20	0.87	1.31	1.12	0.80	1.04	0.92	0.97	0.94	1.04	0.87	1.06	0.74
487	0.94	0.80	1.19	1.03	0.99	0.97	0.92	1.01	1.01	1.07	1.03	1.14	0.85
489	1.03	0.87	1.18	0.91	1.01	1.12	0.77	0.64	0.83	2.01	1.08	0.88	0.54
496	1.15	1.14	1.09	1.04	1.13	1.01	1.07	1.00	1.02	0.99	0.88	0.94	0.92
501	0.80	0.67	1.36	1.00	0.98	1.18	0.90	1.34	0.83	0.90	1.47	1.34	0.99

PATHWAY SORT	ANVOA Contrasts				ANVOA Contrasts					ANVOA Contrasts			
	T1-7 C-7	T1-14 C-14	T1-21 C-21	T1-28 C-28	T2-0 C-0	T2-7 C-7	T2-14 C-14	T2-21 C-21	T2-28 C-28	T2-0 T1-0	T2-7 T1-7	T2-14 T1-14	T2-21 T1-21
515	1.12	0.73	1.55	0.91	1.09	1.18	0.91	1.01	0.91	1.13	1.05	1.24	0.65
517	3.99	4.75	6.84	5.85	0.99	0.83	0.67	0.87	0.73	0.81	0.21	0.14	0.13
519	0.15	0.50	1.02	0.87	1.05	1.07	0.75	0.54	0.91	6.31	7.07	1.50	0.52
521	1.09	0.90	1.12	1.05	1.00	1.02	0.97	0.98	1.07	1.08	0.93	1.07	0.87
523	1.58	1.19	1.33	1.08	0.80	1.00	0.70	1.11	0.92	1.23	0.63	0.59	0.84
524	0.79	0.90	0.83	0.92	0.93	0.99	0.69	0.57	0.94	2.15	1.25	0.77	0.69
527	9.29	1.51	0.70	0.70	1.27	1.26	1.07	0.84	1.22	0.30	0.14	0.71	1.20
529	2.57	2.08	1.71	1.22	1.08	1.09	0.67	0.59	0.78	0.54	0.43	0.32	0.35
531	159.45	6.22	6.38	2.15	0.26	2.19	0.15	2.32	0.83	0.01	0.01	0.02	0.36
532	1.00	1.11	1.61	1.16	0.96	1.26	1.30	1.06	0.97	0.90	1.26	1.17	0.66
533	3.69	10.24	21.23	5.29	1.29	0.97	0.70	0.56	0.52	0.86	0.26	0.07	0.03
534	2.25	3.74	3.57	2.01	1.20	0.82	0.60	0.52	0.90	0.78	0.37	0.16	0.14
535	0.05	0.08	2.72	6.13	0.88	1.38	1.06	0.86	0.95	27.14	30.41	12.94	0.31
536	1.74	1.28	1.61	1.47	1.08	1.14	0.94	0.94	0.95	0.75	0.65	0.73	0.58
545	0.77	1.49	1.75	1.10	0.75	0.93	0.84	0.88	1.46	2.27	1.22	0.57	0.50
546	1.82	1.35	1.87	1.49	1.04	1.10	0.91	1.14	0.87	1.20	0.61	0.68	0.61
548	6.11	6.08	8.14	6.35	0.96	1.31	0.93	1.00	1.01	1.03	0.21	0.15	0.12
549	1.28	1.05	1.76	1.25	1.04	1.00	0.91	1.07	0.93	0.96	0.78	0.87	0.61
551	0.06	0.11	0.40	0.72	1.30	0.57	3.02	1.00	0.44	10.24	9.93	27.71	2.48
557	3.04	1.78	1.22	0.97	0.99	1.05	0.74	0.86	0.95	0.52	0.34	0.42	0.70
559	5.41	3.90	1.79	1.75	4.31	0.57	1.00	1.10	0.91	0.87	0.10	0.26	0.62
561	6.45	2.51	0.87	0.59	0.68	1.35	0.59	0.92	0.90	0.20	0.21	0.24	1.07
565	15.80	15.59	8.80	5.09	1.00	1.00	0.97	1.19	1.00	1.00	0.06	0.06	0.14
566	1.43	0.87	1.59	1.30	1.07	0.97	0.96	1.01	1.18	1.09	0.68	1.10	0.63
569	1.12	2.60	6.53	5.57	0.77	0.87	0.69	0.85	1.53	1.21	0.77	0.26	0.13

PATHWAY SORT	ANVOA Contrasts				ANVOA Contrasts					ANVOA Contrasts			
	T1-7 C-7	T1-14 C-14	T1-21 C-21	T1-28 C-28	T2-0 C-0	T2-7 C-7	T2-14 C-14	T2-21 C-21	T2-28 C-28	T2-0 T1-0	T2-7 T1-7	T2-14 T1-14	T2-21 T1-21
570	1.46	1.07	1.74	1.17	1.32	0.99	0.89	0.88	1.04	0.85	0.68	0.83	0.50
579	1.12	0.88	1.16	0.83	1.01	1.00	0.92	1.03	1.06	1.08	0.89	1.04	0.88
582	1.28	1.08	1.32	1.48	1.08	1.25	1.08	1.04	1.54	1.11	0.98	1.00	0.79
591	1.11	0.98	1.07	1.14	1.09	1.14	1.03	0.85	1.07	1.15	1.03	1.05	0.80
594	1.28	1.10	1.51	1.19	0.85	0.88	0.70	0.69	1.21	1.05	0.69	0.64	0.45
598	1.67	1.30	1.87	1.08	1.02	1.12	0.75	0.84	0.92	1.24	0.67	0.57	0.45
601	1.09	0.93	1.30	1.05	1.09	1.13	1.07	1.18	0.99	1.21	1.04	1.16	0.91
602	0.74	0.53	0.94	0.95	0.99	1.07	0.91	1.00	1.00	1.29	1.46	1.70	1.07
603	0.68	1.24	3.53	0.98	1.13	1.11	1.44	3.70	0.68	0.81	1.64	1.16	1.05
604	1.25	1.09	1.15	1.35	1.02	1.15	0.93	0.73	1.38	1.11	0.92	0.85	0.63
608	1.31	1.08	1.21	1.18	0.96	1.26	1.04	0.85	1.26	0.80	0.96	0.96	0.70
609	1.32	0.95	1.06	1.43	1.14	1.44	0.84	0.75	1.61	1.16	1.09	0.89	0.70
610	1.35	1.29	1.00	1.06	0.96	1.29	0.97	0.81	1.08	0.75	0.95	0.75	0.81
611	0.95	1.14	0.89	1.16	1.17	1.00	1.17	0.71	1.37	1.02	1.04	1.02	0.79
613	1.24	1.18	1.04	1.44	1.14	1.17	1.23	0.87	1.79	1.06	0.95	1.04	0.84
618	1.30	0.89	1.09	0.60	1.05	1.19	1.17	1.07	1.15	1.23	0.92	1.31	0.98
619	1.27	0.92	1.08	0.60	1.06	1.27	1.33	1.01	1.11	1.02	1.00	1.45	0.94
620	1.82	0.95	1.11	0.88	0.58	1.19	1.27	1.22	1.73	0.75	0.65	1.34	1.10
621	1.40	1.07	1.17	1.01	1.12	1.25	1.41	1.26	1.56	1.07	0.89	1.31	1.08
622	1.15	0.88	0.96	1.03	1.13	1.14	1.08	0.93	1.13	1.15	0.99	1.23	0.98
625	1.14	1.22	0.93	1.01	1.03	1.00	1.11	0.90	1.16	0.96	0.88	0.91	0.97
629	1.07	0.95	0.91	1.02	1.13	1.08	1.03	0.78	1.21	1.22	1.01	1.08	0.85
630	1.31	1.44	0.53	0.78	0.60	0.96	1.00	0.54	1.58	1.21	0.73	0.70	1.02
631	1.02	0.96	1.00	1.15	1.13	1.03	0.99	0.74	1.36	1.07	1.01	1.04	0.73
632	1.06	1.01	1.20	1.12	1.16	1.16	0.95	0.79	1.33	1.24	1.09	0.94	0.66
633	1.04	1.45	1.43	1.11	0.90	0.96	1.02	0.87	1.17	0.90	0.92	0.70	0.61
635	1.10	1.03	1.03	1.07	1.17	1.13	1.04	0.76	1.51	1.14	1.02	1.01	0.74
636	1.21	1.13	1.00	1.04	1.06	1.21	0.98	0.73	1.32	0.99	1.00	0.86	0.73
637	1.15	1.00	1.17	1.11	1.20	1.25	1.00	0.83	1.40	1.23	1.09	1.00	0.71
639	1.25	1.23	1.35	1.32	0.84	1.08	0.91	1.10	1.10	0.93	0.86	0.74	0.81
641	1.56	0.54	1.31	1.64	1.28	1.41	0.53	0.78	0.82	1.54	0.90	0.98	0.60
655	1.10	1.19	1.12	1.28	1.17	1.02	0.98	0.73	1.46	1.22	0.93	0.82	0.65
658	1.89	0.95	1.35	1.07	0.88	1.94	0.47	1.12	1.30	1.43	1.02	0.50	0.83
659	1.17	0.97	1.05	1.41	1.17	1.35	0.97	0.77	1.58	1.12	1.15	1.01	0.73
665	1.31	0.77	1.43	1.48	0.49	1.83	0.84	1.70	1.88	0.49	1.40	1.09	1.19
670.01	0.98	1.09	0.80	0.91	1.03	0.94	0.98	0.75	0.92	1.06	0.95	0.90	0.94
672	0.97	0.89	0.94	0.94	1.00	0.93	0.75	0.66	0.87	1.15	0.96	0.84	0.70
706	0.99	0.76	1.82	1.29	1.23	1.06	0.73	0.70	1.32	2.05	1.07	0.96	0.38
714	2.37	1.65	1.96	1.67	1.13	1.03	1.17	0.94	1.20	1.20	0.44	0.71	0.48
721	1.12	0.80	0.95	0.96	1.36	1.07	0.80	0.86	0.92	1.07	0.96	0.99	0.90
735	1.02	1.07	2.07	1.11	1.39	0.62	0.62	3.38	0.51	1.17	0.61	0.58	1.64

PATHWAY SORT	ANVOA Contrasts				ANVOA Contrasts					ANVOA Contrasts			
	T1-7 C-7	T1-14 C-14	T1-21 C-21	T1-28 C-28	T2-0 C-0	T2-7 C-7	T2-14 C-14	T2-21 C-21	T2-28 C-28	T2-0 T1-0	T2-7 T1-7	T2-14 T1-14	T2-21 T1-21
742	0.94	1.03	1.01	1.13	0.88	0.92	0.90	0.68	1.23	0.98	0.97	0.88	0.68
744	1.01	0.98	0.91	0.99	1.09	1.27	1.11	0.72	1.41	1.07	1.26	1.12	0.80
809	1.00	0.84	0.93	0.84	1.18	1.07	1.03	0.92	1.06	1.21	1.07	1.23	0.99
811	1.08	1.00	1.49	0.69	0.86	0.87	2.70	0.83	0.70	0.62	0.80	2.70	0.56
819	1.18	1.10	1.03	1.09	1.17	1.12	1.19	0.83	1.08	1.14	0.95	1.08	0.80
820	1.18	1.10	1.13	1.18	1.13	1.10	1.06	0.99	1.15	1.06	0.93	0.96	0.87
821	1.10	0.99	1.04	1.02	1.22	1.05	1.01	0.91	1.07	1.16	0.95	1.01	0.88
822	1.15	0.97	0.97	0.95	1.14	1.05	1.02	0.86	1.04	1.19	0.91	1.05	0.89
823	0.99	1.02	1.30	1.04	0.92	0.83	1.19	0.73	1.08	1.28	0.84	1.16	0.56
825	1.04	1.08	1.15	1.04	1.24	1.18	1.16	0.97	1.03	1.38	1.13	1.07	0.85
833	4.50	3.93	4.57	0.66	5.22	1.59	1.63	1.47	0.24	1.06	0.35	0.41	0.32
834	7.21	4.31	5.17	0.83	2.94	2.50	1.80	1.71	0.31	1.26	0.35	0.42	0.33
835	6.99	4.80	5.68	0.76	4.00	2.41	1.72	1.46	0.27	1.18	0.34	0.36	0.26
840	1.02	0.98	0.98	1.43	1.03	0.92	1.09	1.06	1.36	1.12	0.90	1.11	1.07
849	1.29	1.21	1.34	1.12	1.26	1.53	0.95	1.30	1.16	1.48	1.18	0.78	0.97
851	1.14	1.02	1.06	1.35	1.22	1.07	0.93	0.96	1.25	1.55	0.94	0.91	0.90
876	1.37	0.98	2.19	1.20	1.04	1.42	1.21	1.61	0.63	1.18	1.03	1.24	0.74
877	0.99	0.77	1.57	0.92	1.68	1.37	1.18	1.35	1.39	0.74	1.38	1.53	0.86
881	1.19	1.04	1.09	1.15	1.01	1.10	0.91	0.89	1.08	0.99	0.93	0.87	0.82
882	4.54	2.07	1.52	1.22	0.98	0.95	0.83	0.87	1.17	0.38	0.21	0.40	0.57
883	0.96	0.99	1.11	1.12	1.04	1.00	0.94	0.91	0.99	1.16	1.04	0.95	0.82
890	1.15	0.89	1.25	1.16	0.88	1.03	1.00	1.13	0.91	0.91	0.89	1.12	0.91
905	1.36	0.77	1.14	1.01	0.94	1.04	0.84	0.84	0.98	1.05	0.77	1.09	0.74
909	0.92	0.58	1.66	0.79	0.99	1.01	0.70	0.96	1.31	2.25	1.10	1.20	0.58
915	0.82	0.59	0.96	1.15	1.39	1.39	0.60	0.60	1.07	2.23	1.69	1.02	0.63
919	0.82	0.83	1.15	1.02	1.15	1.18	0.87	0.98	1.36	2.17	1.43	1.05	0.85
920	4.29	4.11	2.97	0.97	2.62	1.85	1.48	1.56	0.48	0.90	0.43	0.36	0.52
922	6.92	3.72	3.33	0.88	1.83	2.14	1.07	1.32	0.49	0.68	0.31	0.29	0.40
923	4.25	3.49	3.59	1.02	2.34	1.33	1.11	1.31	0.39	1.12	0.31	0.32	0.36
926	1.60	2.54	3.28	1.32	1.00	1.31	0.86	1.72	0.39	1.00	0.82	0.34	0.52
929	6.38	2.35	2.92	0.87	3.81	2.14	0.63	1.09	0.60	1.38	0.34	0.27	0.37
930	3.92	3.69	3.18	0.97	2.15	1.65	0.99	1.69	0.42	2.04	0.42	0.27	0.53
934	5.63	3.63	3.51	0.93	3.77	2.01	0.85	1.38	0.42	1.61	0.36	0.23	0.39
935	4.47	2.75	2.87	0.85	2.51	2.61	0.74	1.91	0.47	2.51	0.58	0.27	0.67
936	8.51	2.99	4.20	0.79	3.92	2.52	0.70	1.23	0.44	1.69	0.30	0.23	0.29
937	4.35	2.54	3.47	0.84	1.83	2.15	0.95	1.24	0.40	1.10	0.49	0.38	0.36
938	0.91	0.85	1.38	1.09	1.21	1.09	0.77	0.78	1.45	1.62	1.20	0.91	0.57
939	2.54	3.97	2.24	0.83	1.00	1.62	1.15	1.25	0.34	1.00	0.64	0.29	0.56

PATHWAY SORT	ANVOA Contrasts				ANVOA Contrasts					ANVOA Contrasts			
	T1-7 C-7	T1-14 C-14	T1-21 C-21	T1-28 C-28	T2-0 C-0	T2-7 C-7	T2-14 C-14	T2-21 C-21	T2-28 C-28	T2-0 T1-0	T2-7 T1-7	T2-14 T1-14	T2-21 T1-21
945	4.42	4.94	3.93	1.12	1.05	1.87	1.37	1.83	0.29	0.59	0.42	0.28	0.47
970	0.77	1.21	1.06	0.96	0.90	0.57	0.96	1.06	1.30	1.09	0.74	0.80	1.00
1004	1.15	0.86	1.33	1.10	0.98	1.07	0.93	1.10	1.01	1.15	0.92	1.08	0.83
1005	1.25	0.98	1.19	1.10	1.09	1.00	0.96	0.92	1.05	1.19	0.80	0.98	0.78
1018	1.18	0.93	1.22	1.33	0.82	1.10	1.19	1.14	0.97	1.16	0.93	1.28	0.93
1020	1.08	0.86	1.29	1.17	0.98	1.04	0.91	1.08	1.03	1.04	0.96	1.06	0.84
1024	1.35	0.80	1.96	2.51	2.07	1.15	0.89	1.38	2.12	1.72	0.86	1.12	0.70
1034	1.13	0.73	1.23	1.08	1.50	0.95	1.09	1.17	1.04	1.20	0.84	1.48	0.95
1057	0.80	1.01	1.40	1.64	1.88	0.39	0.28	1.09	1.31	1.27	0.48	0.28	0.78
1059	0.98	0.78	1.49	1.01	1.37	1.07	1.21	0.89	0.40	1.33	1.09	1.55	0.60
1098	59.92	16.58	8.61	3.60	0.75	0.77	0.95	1.25	1.20	0.82	0.01	0.06	0.15
1101	0.82	0.79	2.13	2.13	1.12	1.05	0.88	1.07	1.35	1.01	1.29	1.11	0.50
1105	1.21	1.14	1.08	0.77	1.06	0.93	0.75	0.59	0.54	1.13	0.77	0.66	0.54
1106	2.26	1.32	1.37	1.82	0.46	0.98	0.48	0.69	1.43	0.72	0.43	0.36	0.51
1114	1.14	0.46	0.81	0.83	1.20	1.31	0.82	0.69	1.22	1.01	1.15	1.80	0.85
1116	0.86	0.57	0.77	0.72	1.22	1.14	0.81	0.86	1.33	1.15	1.32	1.41	1.13
1128	1.42	1.06	1.30	0.78	1.42	1.16	1.06	0.76	0.99	1.19	0.82	1.00	0.59
1149	1.15	0.79	1.02	1.01	1.09	1.10	0.92	0.86	1.24	1.13	0.96	1.18	0.85
1150	0.89	1.13	0.89	0.70	1.50	0.92	1.88	0.62	1.04	2.41	1.04	1.67	0.69
1180	1.55	1.36	1.13	1.42	1.00	1.05	1.07	0.92	1.38	0.86	0.68	0.78	0.81
1181	1.05	1.24	0.95	0.96	1.19	1.42	1.08	0.67	0.98	1.88	1.36	0.87	0.70
1199	1.24	1.03	1.49	1.46	1.00	1.17	1.01	1.03	1.21	1.20	0.94	0.99	0.69
1202	1.12	0.78	1.47	0.76	1.07	0.98	0.71	0.99	0.95	0.96	0.88	0.91	0.67
1212	4.95	5.83	3.95	0.96	4.28	1.71	1.72	2.29	0.32	1.15	0.35	0.30	0.58
1216	2.48	4.30	2.84	1.51	1.21	1.00	2.22	1.65	1.03	1.22	0.40	0.52	0.58
1221	1.35	0.88	0.87	1.16	0.93	1.09	0.91	0.82	1.07	1.06	0.81	1.03	0.94
1224	2.24	0.99	0.87	0.62	1.18	1.03	1.78	2.03	0.81	0.55	0.46	1.80	2.33
1232	1.27	1.14	1.08	0.99	1.18	1.04	1.03	0.89	0.99	1.09	0.82	0.91	0.82
1242	1.17	1.05	1.08	1.06	1.03	1.11	1.02	0.90	1.01	1.05	0.94	0.97	0.83

PATHWAY SORT	ANVOA Contrasts				ANVOA Contrasts					ANVOA Contrasts			
	T1-7 C-7	T1-14 C-14	T1-21 C-21	T1-28 C-28	T2-0 C-0	T2-7 C-7	T2-14 C-14	T2-21 C-21	T2-28 C-28	T2-0 T1-0	T2-7 T1-7	T2-14 T1-14	T2-21 T1-21
1242.1	0.85	1.24	1.09	1.07	1.16	0.88	1.18	1.18	0.98	1.02	1.04	0.95	1.08
1243	1.22	0.99	0.88	1.13	1.04	1.14	0.94	0.74	0.95	1.05	0.93	0.95	0.84
1266	0.81	0.82	1.60	1.22	0.89	0.99	0.85	1.26	1.02	1.27	1.22	1.04	0.79
1288	0.99	1.03	1.09	1.11	1.21	0.88	0.97	0.85	1.07	1.21	0.88	0.94	0.78
1300	1.10	0.99	1.06	1.12	1.13	1.03	1.02	0.89	1.04	1.11	0.94	1.02	0.84
1318	1.02	0.76	1.24	1.11	0.95	1.00	0.92	1.01	0.91	1.09	0.98	1.20	0.81
1360	1.17	0.85	0.85	0.73	0.94	1.02	1.00	0.60	0.88	1.06	0.87	1.17	0.70
1469	1.13	0.93	1.11	0.94	1.06	1.08	0.91	0.88	1.00	1.09	0.96	0.97	0.79
1531	1.24	0.85	1.58	1.01	1.12	1.31	0.71	1.10	0.91	1.46	1.06	0.84	0.70
1565	1.09	0.92	1.03	1.10	1.10	1.12	0.98	0.84	1.18	1.27	1.02	1.07	0.82
1584	1.08	1.03	1.09	1.17	0.98	1.09	1.04	0.92	1.16	1.09	1.01	1.00	0.85
1585	0.94	1.12	1.23	1.23	1.06	1.15	1.05	1.15	0.88	1.02	1.23	0.94	0.93
1612	1.07	0.99	1.12	1.15	1.15	1.05	1.03	0.95	1.04	1.23	0.98	1.04	0.85
1613	1.06	1.16	1.08	1.18	1.06	0.97	1.10	1.08	1.02	1.03	0.91	0.94	1.00
1614	0.99	0.81	0.98	0.96	1.08	0.92	1.39	0.80	1.01	1.11	0.94	1.72	0.82
1615	0.91	1.18	0.53	1.14	1.07	1.17	0.79	0.62	1.16	1.19	1.30	0.67	1.18
1632	1.41	1.44	2.34	2.17	0.98	1.07	0.96	1.02	0.95	0.99	0.76	0.67	0.44
1662	1.11	1.09	1.20	0.99	0.99	0.89	1.13	1.01	1.12	1.18	0.80	1.04	0.84

PATHWAY SORT	ANVOA Contrasts								ANVOA Contrasts				
	T2-28 T1-28	C-7 C-0	C-14 C-0	C-21 C-0	C-28 C-0	C-14 C-7	C-21 C-14	C-28 C-21	T1-7 T1-0	T1-14 T1-0	T1-21 T1-0	T1-28 T1-0	T1-14 T1-7
1	1.19	1.21	1.74	1.81	1.98	1.44	1.04	1.10	1.36	1.40	1.93	2.14	1.03
3	1.15	1.06	1.01	1.05	1.23	0.95	1.04	1.17	1.20	1.39	1.04	1.29	1.16
4	0.81	0.94	0.85	0.81	0.68	0.90	0.95	0.85	1.29	0.97	1.20	1.10	0.75
7	1.09	0.88	1.04	0.79	0.87	1.17	0.77	1.10	1.22	1.13	1.10	1.09	0.93
8	0.82	1.02	1.26	1.06	1.16	1.23	0.84	1.10	1.28	1.27	1.50	1.49	0.99
17	0.90	0.93	1.04	1.19	1.20	1.12	1.14	1.01	1.18	1.31	1.24	1.34	1.11
22	0.85	1.03	1.07	1.09	1.09	1.04	1.02	1.00	1.16	1.14	1.17	1.21	0.98
24	0.81	1.00	1.15	1.08	1.20	1.16	0.94	1.11	1.26	1.29	1.52	1.19	1.02
25	0.73	0.90	1.00	0.75	0.82	1.11	0.75	1.10	1.08	0.91	0.99	0.96	0.84
26	0.44	0.68	0.77	0.46	1.01	1.13	0.59	2.20	1.09	1.10	1.18	1.39	1.01
27	1.09	1.07	1.34	1.13	1.20	1.25	0.84	1.06	1.21	1.15	1.41	1.37	0.95
39	1.13	0.84	1.01	0.81	0.84	1.20	0.80	1.04	1.09	0.89	0.91	0.89	0.82
44	1.18	0.91	0.76	0.69	0.64	0.84	0.91	0.93	0.81	0.65	0.54	0.53	0.80
45	0.98	1.18	1.02	0.98	1.14	0.87	0.96	1.16	1.20	1.11	1.13	1.18	0.92
50	0.88	1.10	1.10	1.10	1.03	1.00	1.00	0.94	0.85	0.82	1.20	1.01	0.97
69	0.62	1.01	1.53	0.80	0.97	1.51	0.53	1.21	1.18	1.31	1.39	1.50	1.11
74	1.01	1.05	0.99	1.05	1.07	0.95	1.06	1.01	1.26	1.23	1.17	1.17	0.97
75	0.86	1.50	1.10	1.19	1.09	0.74	1.08	0.91	1.07	0.94	0.98	1.06	0.88
80	1.20	1.11	1.07	1.43	1.44	0.96	1.34	1.01	0.92	1.43	1.38	0.94	1.55
83	0.89	1.20	1.24	1.29	1.33	1.03	1.04	1.03	1.33	1.31	1.31	1.40	0.99
88	0.98	0.99	1.08	1.05	0.97	1.09	0.97	0.92	1.14	1.09	1.28	1.10	0.95
99	0.94	1.09	1.15	1.16	1.18	1.05	1.00	1.02	1.24	1.21	1.18	1.28	0.98
128	1.12	1.09	1.21	1.22	1.15	1.11	1.01	0.94	1.23	1.11	1.24	1.00	0.90
135	0.93	0.90	1.13	1.16	0.89	1.25	1.03	0.77	1.09	1.02	1.02	1.03	0.94
144	0.89	0.96	0.94	1.05	0.96	0.97	1.12	0.92	1.08	1.10	0.89	0.88	1.01
145	0.89	1.06	1.17	1.16	1.17	1.10	0.99	1.02	1.30	1.28	1.27	1.33	0.98
151	0.95	0.99	1.03	1.01	0.98	1.05	0.98	0.97	1.19	1.09	1.19	1.24	0.92
164	0.93	1.16	1.06	1.12	1.25	0.91	1.06	1.12	1.04	1.03	1.07	1.10	0.99
170	1.20	1.15	1.15	1.00	1.13	1.00	0.88	1.12	1.18	1.26	1.44	1.14	1.06
172	3.57	0.88	1.02	1.07	0.74	1.17	1.04	0.70	0.42	0.31	0.45	0.47	0.73
173	3.01	1.19	1.45	1.43	1.20	1.22	0.99	0.84	0.71	0.39	0.43	0.50	0.55
179	1.02	1.00	1.91	3.10	4.15	1.91	1.62	1.34	2.80	4.20	4.40	4.95	1.50
180	0.79	1.14	1.15	1.13	1.18	1.01	0.98	1.05	1.44	1.45	1.47	1.47	1.01
181	0.88	1.09	1.17	1.15	1.22	1.08	0.98	1.07	1.45	1.46	1.59	1.54	1.00
190	0.93	1.07	1.14	1.15	1.17	1.07	1.01	1.02	1.21	1.17	1.20	1.23	0.96
193	2.91	1.18	1.36	1.29	0.99	1.16	0.94	0.77	0.62	0.31	0.44	0.48	0.49
198	0.44	1.01	1.47	1.77	2.20	1.45	1.20	1.25	2.66	3.17	4.00	3.94	1.19
200	1.04	1.00	0.87	0.95	0.90	0.87	1.09	0.94	0.96	0.82	0.94	0.84	0.85
202	1.27	0.98	0.93	1.00	0.77	0.95	1.07	0.77	0.93	0.62	0.97	0.85	0.67
205	1.05	0.97	1.14	1.06	0.98	1.17	0.93	0.92	1.15	1.07	1.12	1.13	0.93
206	0.99	1.10	1.12	1.09	1.04	1.01	0.98	0.95	1.22	1.13	1.17	1.16	0.93

PATHWAY SORT	ANVOA Contrasts								ANVOA Contrasts				
	T2-28 T1-28	C-7 C-0	C-14 C-0	C-21 C-0	C-28 C-0	C-14 C-7	C-21 C-14	C-28 C-21	T1-7 T1-0	T1-14 T1-0	T1-21 T1-0	T1-28 T1-0	T1-14 T1-7
213	1.28	1.33	1.84	2.04	2.48	1.38	1.11	1.22	1.11	1.69	3.12	2.75	1.52
216	0.92	1.26	1.50	1.13	1.13	1.19	0.75	1.01	1.23	1.51	1.94	1.50	1.23
224	1.09	1.62	1.81	2.07	1.89	1.11	1.14	0.92	1.65	1.69	1.64	1.89	1.02
225	0.96	0.98	0.71	0.61	0.51	0.72	0.86	0.83	0.92	0.70	0.57	0.53	0.77
227	1.04	0.83	1.01	1.02	1.02	1.22	1.01	1.00	1.23	0.89	1.26	1.11	0.72
229	0.93	0.99	1.14	0.98	1.06	1.15	0.85	1.08	1.09	1.05	1.18	1.01	0.96
231	0.61	1.53	2.33	2.63	2.91	1.52	1.13	1.11	1.62	3.95	5.57	4.98	2.44
241	1.44	1.72	2.11	2.92	1.60	1.23	1.38	0.55	1.42	1.34	1.75	1.79	0.95
244	0.71	0.96	1.09	0.80	1.02	1.14	0.73	1.29	1.21	1.23	1.41	1.34	1.02
245	0.90	0.95	1.08	0.97	1.03	1.14	0.89	1.07	1.20	1.11	1.34	1.24	0.92
246	1.00	1.05	1.14	1.16	1.12	1.08	1.02	0.97	1.17	1.14	1.35	1.31	0.98
248	0.88	1.07	1.17	1.16	1.18	1.10	0.99	1.02	1.02	1.04	1.10	1.18	1.02
252	0.90	1.18	1.15	1.17	1.13	0.98	1.01	0.97	1.28	1.39	1.18	1.23	1.08
259	0.95	1.04	1.08	1.08	1.05	1.04	1.00	0.97	1.15	1.11	1.16	1.14	0.96
260	0.83	0.74	0.95	1.04	1.02	1.28	1.10	0.97	0.93	1.13	1.15	1.21	1.22
263	0.85	0.96	1.17	0.93	1.02	1.21	0.80	1.10	1.20	1.24	1.38	1.38	1.03
266	0.92	2.10	2.68	2.58	2.67	1.28	0.96	1.04	2.94	3.49	3.08	2.88	1.19
270	1.04	1.10	1.22	1.30	1.28	1.11	1.07	0.98	1.20	1.17	1.28	1.29	0.98
280	0.97	0.94	1.04	0.96	0.88	1.11	0.92	0.92	0.91	0.97	0.81	0.78	1.06
281	1.16	1.17	1.03	1.12	1.40	0.88	1.09	1.25	1.38	1.35	1.02	0.73	0.98
282	1.15	3.30	5.54	7.26	8.56	1.68	1.31	1.18	4.69	6.52	8.93	8.91	1.39
283	1.11	0.92	0.76	0.68	0.70	0.82	0.91	1.02	0.84	0.65	0.58	0.51	0.77
285	1.00	0.25	0.15	0.09	0.09	0.58	0.64	1.00	0.46	0.21	0.11	0.08	0.46
404	0.95	1.09	0.94	1.16	0.83	0.86	1.24	0.72	1.24	1.14	1.08	0.79	0.92
453	0.38	0.98	1.33	1.23	1.53	1.37	0.92	1.24	1.73	2.78	4.85	4.70	1.60
455	0.53	1.67	3.68	3.09	3.93	2.20	0.84	1.27	2.57	1.96	4.06	4.70	0.77
472	0.74	1.07	1.33	1.19	1.33	1.24	0.89	1.12	0.94	0.99	1.75	1.94	1.04
478	0.83	0.88	1.34	0.99	1.06	1.53	0.74	1.07	0.91	0.69	0.87	0.82	0.75
482	0.84	0.77	0.95	0.79	0.81	1.23	0.84	1.02	1.20	1.07	1.36	1.18	0.89
487	0.97	0.96	1.05	0.86	0.86	1.10	0.82	1.00	0.98	0.91	1.11	0.97	0.93
489	0.90	1.04	1.48	1.36	1.26	1.42	0.92	0.92	2.15	2.57	3.20	2.29	1.19
496	0.98	1.07	1.07	1.08	1.06	1.00	1.01	0.98	1.08	1.08	1.04	0.97	0.99
501	0.82	3.92	8.46	6.60	9.32	2.16	0.78	1.41	2.89	5.26	8.28	8.62	1.82

PATHWAY SORT	ANVOA Contrasts								ANVOA Contrasts				
	T2-28 T1-28	C-7 C-0	C-14 C-0	C-21 C-0	C-28 C-0	C-14 C-7	C-21 C-14	C-28 C-21	T1-7 T1-0	T1-14 T1-0	T1-21 T1-0	T1-28 T1-0	T1-14 T1-7
515	0.99	0.99	1.27	0.97	1.07	1.28	0.77	1.10	1.15	0.96	1.57	1.02	0.84
517	0.12	1.90	2.91	2.72	3.54	1.54	0.93	1.30	6.24	11.39	15.34	17.06	1.83
519	1.05	1.10	1.49	1.30	1.27	1.35	0.87	0.98	1.01	4.50	7.99	6.65	4.46
521	1.02	0.95	1.04	0.91	0.92	1.09	0.88	1.01	1.11	1.00	1.10	1.05	0.91
523	0.85	0.65	0.87	0.63	0.77	1.33	0.72	1.22	1.57	1.58	1.28	1.28	1.01
524	1.02	1.01	1.42	1.19	1.05	1.40	0.84	0.88	1.86	2.96	2.30	2.24	1.59
527	1.74	1.03	1.09	1.09	0.88	1.06	1.00	0.81	2.24	0.38	0.18	0.14	0.17
529	0.64	0.63	0.61	0.37	0.34	0.97	0.61	0.91	0.81	0.64	0.32	0.21	0.78
531	0.39	0.32	1.57	0.20	0.24	4.94	0.13	1.21	1.71	0.33	0.04	0.02	0.19
532	0.84	0.92	1.08	0.86	1.03	1.17	0.79	1.21	0.87	1.13	1.30	1.13	1.30
533	0.10	0.46	0.12	0.03	0.03	0.26	0.28	1.01	1.13	0.82	0.47	0.12	0.72
534	0.45	0.56	0.24	0.14	0.10	0.43	0.59	0.72	0.82	0.59	0.33	0.13	0.72
535	0.16	0.83	0.78	0.42	0.35	0.94	0.54	0.83	1.17	1.98	35.49	66.45	1.69
536	0.65	2.86	5.40	5.99	6.99	1.89	1.11	1.17	3.46	4.82	6.72	7.12	1.39
545	1.33	0.59	0.42	0.37	0.24	0.72	0.88	0.66	1.37	1.90	1.96	0.81	1.39
546	0.58	0.83	1.09	0.89	1.10	1.32	0.82	1.23	1.74	1.70	1.93	1.90	0.98
548	0.16	0.90	1.11	0.95	1.28	1.23	0.86	1.35	5.91	7.24	8.32	8.74	1.22
549	0.75	1.18	1.56	1.26	1.45	1.32	0.81	1.15	1.40	1.51	2.06	1.68	1.08
551	0.61	2.49	1.16	2.04	3.29	0.47	1.76	1.61	1.13	1.00	6.51	18.77	0.88
557	0.98	0.87	1.04	0.84	0.65	1.19	0.81	0.77	1.39	0.96	0.54	0.33	0.69
559	0.52	3.73	3.48	3.64	4.20	0.93	1.05	1.15	4.06	2.73	1.31	1.48	0.67
561	1.53	0.62	0.93	0.63	0.62	1.49	0.67	0.99	1.18	0.68	0.16	0.11	0.58
565	0.20	1.00	1.03	1.00	1.00	1.03	0.97	1.00	15.80	16.12	8.80	5.09	1.02
566	0.91	0.97	1.27	0.89	0.91	1.31	0.70	1.02	1.43	1.14	1.46	1.22	0.80
569	0.27	1.00	1.06	0.70	0.81	1.06	0.65	1.16	1.78	4.38	7.21	7.15	2.46

PATHWAY SORT	ANVOA Contrasts								ANVOA Contrasts				
	T2-28 T1-28	C-7 C-0	C-14 C-0	C-21 C-0	C-28 C-0	C-14 C-7	C-21 C-14	C-28 C-21	T1-7 T1-0	T1-14 T1-0	T1-21 T1-0	T1-28 T1-0	T1-14 T1-7
570	0.89	1.16	1.97	1.73	1.72	1.70	0.88	0.99	1.09	1.36	1.94	1.29	1.25
579	1.27	0.86	0.89	0.67	0.61	1.03	0.76	0.90	1.03	0.83	0.83	0.54	0.81
582	1.03	1.27	1.53	1.49	1.22	1.20	0.97	0.82	1.66	1.69	2.01	1.86	1.02
591	0.94	1.02	1.15	1.23	1.21	1.13	1.07	0.98	1.19	1.19	1.39	1.46	1.00
594	1.02	1.08	1.35	1.39	1.28	1.25	1.03	0.92	1.71	1.84	2.61	1.89	1.07
598	0.85	1.28	1.87	1.70	2.12	1.47	0.91	1.25	2.61	2.99	3.88	2.81	1.14
601	0.94	1.04	1.13	0.92	1.03	1.09	0.81	1.12	1.26	1.17	1.33	1.20	0.93
602	1.05	1.03	1.36	1.14	1.18	1.32	0.84	1.03	1.00	0.95	1.40	1.47	0.95
603	0.70	0.92	0.49	0.15	0.37	0.54	0.30	2.50	0.45	0.44	0.38	0.26	0.98
604	1.03	1.24	1.38	1.85	1.49	1.11	1.34	0.80	1.67	1.63	2.30	2.16	0.98
608	1.07	1.21	1.32	1.51	1.54	1.09	1.15	1.02	1.33	1.20	1.54	1.54	0.90
609	1.12	0.94	1.27	1.71	1.30	1.34	1.35	0.76	1.27	1.22	1.85	1.90	0.96
610	1.02	1.18	1.17	1.83	1.86	1.00	1.56	1.02	1.24	1.18	1.43	1.53	0.95
611	1.18	1.78	1.83	3.08	2.71	1.03	1.68	0.88	1.49	1.84	2.42	2.76	1.23
613	1.25	1.53	1.49	2.39	1.87	0.98	1.60	0.78	1.75	1.64	2.31	2.49	0.94
618	1.92	0.77	0.61	0.52	0.57	0.79	0.86	1.08	1.18	0.64	0.67	0.40	0.54
619	1.85	1.31	1.28	1.12	1.32	0.98	0.88	1.17	1.61	1.13	1.17	0.77	0.71
620	1.98	0.97	1.30	1.23	0.96	1.34	0.95	0.78	2.29	1.60	1.77	1.09	0.70
621	1.55	1.75	1.94	1.68	1.62	1.11	0.86	0.97	2.35	1.99	1.88	1.56	0.84
622	1.10	1.76	2.38	2.16	1.98	1.36	0.91	0.92	2.06	2.12	2.10	2.08	1.03
625	1.15	1.19	1.14	1.37	1.23	0.96	1.20	0.90	1.26	1.29	1.18	1.16	1.03
629	1.18	1.78	2.03	2.47	1.99	1.14	1.22	0.81	2.04	2.08	2.43	2.19	1.02
630	2.01	0.52	0.67	1.30	0.80	1.29	1.92	0.62	1.39	1.97	1.39	1.27	1.42
631	1.17	1.52	1.56	1.95	1.51	1.03	1.25	0.77	1.45	1.41	1.84	1.64	0.97
632	1.19	1.26	1.44	1.58	1.42	1.15	1.09	0.90	1.43	1.57	2.02	1.70	1.10
633	1.06	1.42	1.12	1.56	1.46	0.79	1.39	0.94	1.48	1.64	2.24	1.62	1.11
635	1.41	1.45	1.65	1.92	1.64	1.14	1.16	0.85	1.56	1.65	1.93	1.71	1.06
636	1.27	1.27	1.35	1.89	1.59	1.06	1.41	0.84	1.44	1.44	1.78	1.55	0.99
637	1.27	1.35	1.60	1.71	1.52	1.19	1.07	0.89	1.59	1.65	2.05	1.73	1.04
639	0.83	0.90	1.08	0.95	0.94	1.20	0.88	0.99	1.25	1.47	1.42	1.38	1.17
641	0.50	0.91	1.14	1.23	1.24	1.26	1.08	1.01	1.71	0.74	1.94	2.45	0.43
655	1.14	1.56	1.50	2.02	1.77	0.96	1.35	0.87	1.78	1.85	2.36	2.35	1.04
658	1.22	0.47	0.95	0.75	0.89	2.03	0.78	1.19	1.43	1.46	1.63	1.53	1.02
659	1.12	1.15	1.26	1.92	1.64	1.10	1.52	0.86	1.30	1.18	1.94	2.22	0.91
665	1.27	0.52	0.53	0.47	0.44	1.02	0.88	0.94	0.68	0.41	0.67	0.65	0.60
670.01	1.01	9.57	12.97	17.93	19.42	1.36	1.38	1.08	9.63	14.52	14.71	18.06	1.51
672	0.93	21.88	34.28	39.21	40.88	1.57	1.14	1.04	24.53	35.00	42.49	44.03	1.43
706	1.03	0.94	1.31	1.08	0.89	1.40	0.82	0.82	1.55	1.66	3.29	1.90	1.07
714	0.72	1.18	1.64	1.74	2.18	1.39	1.06	1.25	2.95	2.85	3.61	3.84	0.97
721	0.96	3.49	7.46	9.03	11.32	2.14	1.21	1.25	3.08	4.73	6.79	8.60	1.54
735	0.46	0.61	0.97	0.28	1.00	1.59	0.29	3.57	0.52	0.87	0.49	0.93	1.67

PATHWAY SORT	ANVOA Contrasts								ANVOA Contrasts				
	T2-28 T1-28	C-7 C-0	C-14 C-0	C-21 C-0	C-28 C-0	C-14 C-7	C-21 C-14	C-28 C-21	T1-7 T1-0	T1-14 T1-0	T1-21 T1-0	T1-28 T1-0	T1-14 T1-7
742	1.09	1.71	1.99	2.36	2.13	1.16	1.18	0.90	1.80	2.28	2.66	2.68	1.27
744	1.43	1.67	2.03	2.76	2.43	1.22	1.36	0.88	1.66	1.97	2.47	2.37	1.19
809	1.27	0.96	0.91	0.85	0.82	0.95	0.93	0.97	0.99	0.79	0.81	0.71	0.79
811	1.02	1.08	0.63	0.99	1.10	0.58	1.58	1.11	0.84	0.45	1.06	0.54	0.54
819	0.99	0.97	1.04	1.15	1.04	1.07	1.11	0.90	1.11	1.12	1.16	1.10	1.00
820	0.97	1.05	1.14	1.08	1.06	1.09	0.95	0.97	1.16	1.18	1.15	1.16	1.01
821	1.04	1.12	1.19	1.23	1.21	1.05	1.03	0.99	1.18	1.12	1.22	1.18	0.95
822	1.09	0.95	0.95	0.96	0.89	0.99	1.01	0.93	1.15	0.96	0.97	0.89	0.84
823	1.04	0.61	0.48	0.60	0.70	0.78	1.26	1.15	0.84	0.68	1.09	1.01	0.81
825	0.99	1.07	1.12	1.29	1.20	1.05	1.16	0.93	1.24	1.35	1.66	1.40	1.09
833	0.36	6.66	11.08	14.45	81.48	1.66	1.30	5.64	6.07	8.79	13.36	10.83	1.45
834	0.38	3.03	7.91	9.88	47.10	2.61	1.25	4.77	9.39	14.61	21.89	16.73	1.56
835	0.36	4.52	10.06	13.93	66.06	2.23	1.39	4.74	9.27	14.18	23.23	14.68	1.53
840	0.95	0.99	0.89	0.87	0.78	0.89	0.98	0.90	1.11	0.95	0.93	1.21	0.86
849	1.03	0.81	1.19	0.99	1.20	1.48	0.83	1.21	1.23	1.69	1.56	1.58	1.38
851	0.93	0.83	0.83	0.79	0.66	1.00	0.95	0.83	1.20	1.08	1.07	1.13	0.90
876	0.52	1.07	1.62	0.99	1.83	1.52	0.61	1.85	1.67	1.80	2.45	2.49	1.08
877	1.50	1.20	1.88	1.00	1.19	1.56	0.53	1.19	0.52	0.63	0.69	0.48	1.22
881	0.94	1.02	1.11	1.10	1.05	1.09	0.99	0.96	1.18	1.13	1.16	1.18	0.95
882	0.96	0.86	0.98	0.78	0.67	1.14	0.80	0.86	1.51	0.78	0.46	0.32	0.52
883	0.89	0.95	0.97	0.94	0.96	1.02	0.97	1.02	1.01	1.06	1.15	1.19	1.05
890	0.79	0.90	1.04	0.79	0.87	1.15	0.76	1.10	1.06	0.95	1.01	1.03	0.90
905	0.96	2.12	3.84	3.73	4.68	1.81	0.97	1.25	3.24	3.31	4.75	5.31	1.02
909	1.65	0.67	0.75	0.60	0.56	1.12	0.80	0.94	1.40	0.99	2.27	1.01	0.70
915	0.93	0.85	0.80	0.95	0.63	0.93	1.19	0.66	1.12	0.75	1.46	1.16	0.67
919	1.33	0.68	0.68	0.61	0.47	1.00	0.91	0.77	1.05	1.06	1.33	0.91	1.01
920	0.49	5.76	9.20	13.64	35.01	1.60	1.48	2.57	8.54	13.05	14.00	11.73	1.53
922	0.56	2.84	7.25	9.12	24.26	2.55	1.26	2.66	7.30	10.02	11.26	7.91	1.37
923	0.39	3.40	6.52	7.20	21.36	1.92	1.10	2.97	6.91	10.88	12.35	10.37	1.58
926	0.29	1.28	2.06	2.02	5.76	1.60	0.98	2.86	2.06	5.22	6.62	7.59	2.54
929	0.68	4.44	13.73	20.75	43.62	3.09	1.51	2.10	10.27	11.68	21.94	13.82	1.14
930	0.43	3.32	6.52	8.98	27.45	1.96	1.38	3.06	12.38	22.87	27.13	25.19	1.85
934	0.45	4.27	11.26	16.01	49.02	2.64	1.42	3.06	10.28	17.49	24.04	19.45	1.70
935	0.55	1.55	4.31	5.40	16.42	2.78	1.25	3.04	6.94	11.86	15.48	13.89	1.71
936	0.55	3.66	11.74	17.24	51.40	3.21	1.47	2.98	13.39	15.11	31.18	17.59	1.13
937	0.47	1.62	3.26	3.99	11.41	2.01	1.22	2.86	4.23	4.98	8.32	5.76	1.18
938	1.33	0.88	0.94	0.95	0.71	1.07	1.00	0.75	1.07	1.08	1.75	1.04	1.00
939	0.41	1.65	2.01	3.80	9.61	1.22	1.89	2.53	4.19	7.98	8.53	7.94	1.90

PATHWAY SORT	ANVOA Contrasts								ANVOA Contrasts				
	T2-28 T1-28	C-7 C-0	C-14 C-0	C-21 C-0	C-28 C-0	C-14 C-7	C-21 C-14	C-28 C-21	T1-7 T1-0	T1-14 T1-0	T1-21 T1-0	T1-28 T1-0	T1-14 T1-7
945	0.26	1.78	2.71	3.81	13.65	1.52	1.41	3.58	4.42	7.52	8.41	8.59	1.70
970	1.35	1.69	1.24	1.21	1.26	0.73	0.98	1.04	1.58	1.82	1.57	1.47	1.15
1004	0.92	0.92	1.17	0.87	0.96	1.26	0.74	1.11	1.26	1.18	1.36	1.25	0.94
1005	0.95	0.93	1.09	1.02	0.97	1.18	0.93	0.95	1.27	1.17	1.32	1.17	0.92
1018	0.73	0.83	0.99	0.76	0.81	1.19	0.77	1.07	1.39	1.30	1.31	1.53	0.94
1020	0.88	0.96	1.19	0.91	0.97	1.23	0.76	1.07	1.11	1.09	1.24	1.21	0.98
1024	0.85	0.97	1.71	0.97	0.72	1.75	0.57	0.74	1.09	1.13	1.59	1.51	1.04
1034	0.96	1.23	1.23	1.03	1.33	1.00	0.84	1.29	1.11	0.72	1.01	1.15	0.65
1057	0.80	1.75	2.37	1.56	1.05	1.36	0.66	0.68	0.94	1.62	1.48	1.17	1.71
1059	0.40	0.97	1.28	1.22	1.52	1.33	0.95	1.24	0.91	0.96	1.76	1.49	1.06
1098	0.33	1.10	3.84	9.09	19.10	3.49	2.36	2.10	72.66	70.11	86.08	75.62	0.96
1101	0.63	2.13	3.73	2.11	2.17	1.75	0.56	1.03	1.58	2.67	4.07	4.19	1.69
1105	0.70	0.85	0.73	0.68	0.63	0.85	0.94	0.92	1.11	0.89	0.80	0.52	0.80
1106	0.79	0.55	1.08	1.06	0.73	1.96	0.99	0.69	1.94	2.23	2.28	2.08	1.15
1114	1.46	1.05	1.68	1.96	1.87	1.60	1.17	0.96	1.00	0.64	1.33	1.31	0.64
1116	1.84	0.97	1.06	0.94	0.74	1.10	0.88	0.79	0.79	0.58	0.68	0.51	0.74
1128	1.27	1.08	1.19	1.15	1.15	1.10	0.96	1.01	1.28	1.06	1.24	0.75	0.82
1149	1.23	0.91	0.97	0.92	0.77	1.07	0.94	0.84	1.08	0.80	0.97	0.81	0.73
1150	1.49	0.74	0.39	1.22	1.03	0.53	3.09	0.84	1.06	0.71	1.75	1.15	0.67
1180	0.97	1.23	1.32	1.55	1.43	1.07	1.18	0.92	1.65	1.56	1.52	1.76	0.94
1181	1.02	0.80	0.88	1.23	1.06	1.09	1.40	0.86	1.32	1.71	1.84	1.60	1.30
1199	0.83	0.85	1.04	0.92	0.88	1.22	0.89	0.95	1.26	1.28	1.64	1.53	1.01
1202	1.25	1.19	1.41	1.06	1.32	1.18	0.75	1.25	1.20	0.99	1.40	0.90	0.83
1212	0.33	3.22	4.05	4.83	15.46	1.26	1.19	3.20	4.28	6.33	5.14	4.00	1.48
1216	0.68	1.29	0.96	1.50	1.89	0.75	1.57	1.26	3.22	4.16	4.31	2.88	1.29
1221	0.93	0.96	1.15	1.34	1.05	1.20	1.16	0.79	1.48	1.17	1.35	1.40	0.79
1224	1.30	1.20	1.10	1.15	1.50	0.92	1.05	1.30	1.25	0.51	0.47	0.44	0.41
1232	1.00	1.11	1.08	1.08	0.95	0.98	0.99	0.88	1.29	1.14	1.07	0.87	0.88
1242	0.95	0.93	0.98	1.03	0.97	1.06	1.05	0.94	1.12	1.06	1.14	1.06	0.94

PATHWAY AY SORT	ANVOA Contrasts								ANVOA Contrasts				
	<u>T2-28</u> T1-28	<u>C-7</u> C-0	<u>C-14</u> C-0	<u>C-21</u> C-0	<u>C-28</u> C-0	<u>C-14</u> C-7	<u>C-21</u> C-14	<u>C-28</u> C-21	<u>T1-7</u> T1-0	<u>T1-14</u> T1-0	<u>T1-21</u> T1-0	<u>T1-28</u> T1-0	<u>T1-14</u> T1-7
1242.1	0.92	1.21	0.97	0.89	0.97	0.80	0.92	1.10	0.91	1.05	0.85	0.91	1.17
1243	0.84	0.92	1.12	1.33	1.09	1.22	1.19	0.82	1.14	1.12	1.19	1.25	0.99
1266	0.84	0.84	1.03	0.68	0.72	1.22	0.67	1.06	0.97	1.19	1.55	1.25	1.23
1288	0.96	1.23	1.12	1.19	1.05	0.91	1.06	0.88	1.23	1.17	1.30	1.17	0.95
1300	0.93	1.04	1.08	1.09	1.01	1.03	1.01	0.92	1.12	1.05	1.13	1.11	0.93
1318	0.82	1.05	1.23	0.98	1.02	1.17	0.80	1.04	1.23	1.08	1.40	1.29	0.88
1360	1.20	0.94	0.86	0.86	0.62	0.92	1.00	0.73	1.24	0.82	0.82	0.51	0.66
1469	1.07	0.93	1.12	1.10	1.06	1.20	0.98	0.97	1.09	1.07	1.26	1.02	0.99
1531	0.90	0.86	0.93	0.66	0.70	1.08	0.71	1.06	1.39	1.03	1.36	0.92	0.74
1565	1.08	0.91	0.98	1.00	0.91	1.08	1.01	0.91	1.15	1.04	1.18	1.15	0.90
1584	0.99	0.97	0.95	0.94	0.93	0.98	1.00	0.99	1.17	1.09	1.14	1.22	0.94
1585	0.71	0.82	0.95	0.81	0.89	1.16	0.86	1.10	0.74	1.02	0.96	1.06	1.39
1612	0.91	0.98	1.01	1.02	0.92	1.03	1.01	0.91	1.13	1.08	1.22	1.13	0.95
1613	0.87	1.17	1.14	1.09	1.08	0.97	0.96	0.99	1.21	1.29	1.15	1.24	1.07
1614	1.05	0.98	1.08	1.16	1.13	1.10	1.07	0.97	1.00	0.90	1.16	1.11	0.90
1615	1.02	1.12	1.28	1.41	0.94	1.15	1.10	0.67	1.13	1.69	0.83	1.20	1.49
1632	0.44	1.19	1.72	1.79	2.21	1.45	1.04	1.24	1.68	2.49	4.21	4.84	1.48
1662	1.13	0.92	0.82	0.86	0.84	0.90	1.04	0.99	1.21	1.07	1.23	1.00	0.89

PATHWAY SORT	ANOVA Contrasts								
	<u>T1-21</u> T1-14	<u>T1-28</u> T1-21	<u>T2-7</u> T2-0	<u>T2-14</u> T2-0	<u>T2-21</u> T2-0	<u>T2-28</u> T2-0	<u>T2-14</u> T2-7	<u>T2-21</u> T2-14	<u>T2-28</u> T2-21
1	1.38	1.11	1.24	1.63	1.78	2.38	1.31	1.10	1.33
3	0.75	1.25	1.16	1.11	1.81	1.39	0.96	1.63	0.76
4	1.24	0.91	0.97	1.39	0.87	0.90	1.43	0.62	1.03
7	0.97	0.99	1.11	1.20	0.82	1.18	1.08	0.68	1.45
8	1.18	0.99	1.13	1.16	1.07	1.14	1.03	0.93	1.06
17	0.94	1.08	1.14	1.19	1.02	1.16	1.05	0.86	1.14
22	1.03	1.03	1.00	1.07	0.97	1.02	1.07	0.90	1.05
24	1.18	0.79	0.95	1.14	1.24	1.13	1.21	1.08	0.91
25	1.09	0.97	0.93	0.91	0.78	0.64	0.97	0.86	0.82
26	1.07	1.18	0.99	1.13	0.84	0.46	1.15	0.74	0.55
27	1.23	0.97	1.12	1.26	1.17	1.25	1.13	0.92	1.07
39	1.02	0.98	0.90	1.01	0.85	1.04	1.12	0.85	1.22
44	0.83	0.96	0.88	0.78	0.68	0.60	0.88	0.87	0.88
45	1.02	1.05	1.02	0.87	0.80	1.01	0.85	0.92	1.26
50	1.46	0.84	1.01	0.92	1.03	0.99	0.91	1.12	0.96
69	1.06	1.07	1.11	1.13	1.29	0.86	1.02	1.14	0.67
74	0.96	1.00	1.05	0.89	0.99	1.07	0.84	1.12	1.08
75	1.03	1.09	0.98	0.92	0.92	0.87	0.93	1.00	0.95
80	0.97	0.68	0.97	0.72	0.75	0.75	0.75	1.03	1.00
83	0.99	1.07	1.09	1.24	1.16	1.19	1.14	0.93	1.03
88	1.18	0.86	0.93	0.95	0.87	0.93	1.02	0.92	1.07
99	0.97	1.09	1.04	1.18	1.08	1.18	1.14	0.91	1.09
128	1.11	0.81	0.91	0.97	0.94	0.99	1.07	0.97	1.06
135	1.00	1.01	0.96	0.92	0.82	0.89	0.96	0.90	1.09
144	0.81	0.99	1.18	1.10	1.14	0.97	0.94	1.04	0.85
145	1.00	1.04	1.02	1.13	1.05	1.05	1.11	0.93	1.00
151	1.09	1.05	1.00	0.95	0.84	0.99	0.95	0.89	1.17
164	1.04	1.03	0.92	1.21	1.00	0.94	1.31	0.82	0.95
170	1.14	0.79	0.88	0.87	0.92	0.98	0.99	1.06	1.06
172	1.44	1.06	1.16	1.14	0.82	0.76	0.98	0.72	0.92
173	1.10	1.17	1.11	1.22	1.17	1.14	1.10	0.96	0.98
179	1.05	1.13	1.00	1.91	2.97	5.07	1.91	1.55	1.71
180	1.01	1.00	1.00	1.08	1.01	1.11	1.08	0.94	1.10
181	1.08	0.97	1.05	1.12	1.08	1.23	1.06	0.96	1.14
190	1.02	1.03	1.04	1.15	1.01	1.09	1.10	0.88	1.09
193	1.41	1.10	1.15	1.26	0.95	0.92	1.09	0.75	0.98
198	1.26	0.98	0.87	1.10	1.40	2.16	1.26	1.27	1.55
200	1.15	0.89	0.92	0.84	0.74	0.79	0.91	0.88	1.06
202	1.57	0.87	0.88	0.86	0.73	0.98	0.97	0.85	1.35
205	1.05	1.01	0.94	0.93	0.89	1.12	0.99	0.95	1.26
206	1.04	0.99	0.89	0.91	0.85	0.91	1.02	0.93	1.07

PATHWAY SORT	ANOVA Contrasts								
	<u>T1-21</u> T1-14	<u>T1-28</u> T1-21	<u>T2-7</u> T2-0	<u>T2-14</u> T2-0	<u>T2-21</u> T2-0	<u>T2-28</u> T2-0	<u>T2-14</u> T2-7	<u>T2-21</u> T2-14	<u>T2-28</u> T2-21
213	1.84	0.88	1.21	1.73	2.69	2.84	1.43	1.56	1.05
216	1.28	0.77	1.01	0.97	1.25	1.08	0.96	1.29	0.87
224	0.97	1.16	1.51	1.49	1.29	1.79	0.98	0.87	1.39
225	0.81	0.92	0.85	0.70	0.51	0.49	0.82	0.72	0.97
227	1.41	0.89	0.78	0.67	0.91	0.88	0.86	1.34	0.97
229	1.13	0.85	1.02	1.08	1.03	0.96	1.07	0.95	0.93
231	1.41	0.89	1.56	3.20	4.19	3.86	2.05	1.31	0.92
241	1.30	1.03	0.97	1.08	0.97	2.44	1.11	0.90	2.51
244	1.14	0.96	1.07	1.14	1.01	0.83	1.07	0.88	0.82
245	1.21	0.92	0.99	1.10	0.98	1.01	1.11	0.89	1.03
246	1.18	0.97	1.08	1.00	0.95	1.13	0.93	0.95	1.20
248	1.06	1.07	1.06	1.03	1.01	1.09	0.98	0.98	1.08
252	0.85	1.04	0.90	0.93	1.03	0.92	1.03	1.11	0.90
259	1.05	0.98	1.00	0.98	0.88	0.97	0.99	0.90	1.09
260	1.02	1.05	1.06	1.01	1.04	0.98	0.96	1.02	0.94
263	1.11	1.00	1.19	1.23	1.14	1.12	1.03	0.93	0.98
266	0.88	0.94	2.13	2.91	2.82	2.47	1.36	0.97	0.88
270	1.10	1.01	1.07	1.15	1.03	1.16	1.07	0.89	1.13
280	0.84	0.96	0.76	1.00	0.83	0.71	1.32	0.83	0.86
281	0.75	0.72	1.15	0.91	1.05	0.83	0.79	1.16	0.79
282	1.37	1.00	3.45	5.56	6.89	10.26	1.61	1.24	1.49
283	0.89	0.89	0.80	0.72	0.62	0.58	0.90	0.87	0.92
285	0.52	0.70	0.28	0.12	0.10	0.09	0.41	0.82	0.89
404	0.95	0.73	0.71	0.77	0.83	0.67	1.08	1.08	0.81
453	1.74	0.97	1.19	1.50	1.42	1.65	1.26	0.95	1.16
455	2.07	1.16	1.87	2.34	2.63	2.39	1.25	1.12	0.91
472	1.78	1.11	1.08	1.23	1.21	1.19	1.14	0.98	0.98
478	1.26	0.94	1.13	1.15	0.95	0.90	1.02	0.82	0.94
482	1.26	0.87	1.00	1.10	0.96	0.96	1.10	0.88	0.99
487	1.22	0.87	0.94	0.97	0.88	0.88	1.03	0.90	1.00
489	1.25	0.72	1.16	1.13	0.86	1.03	0.98	0.76	1.20
496	0.96	0.94	0.96	1.02	0.96	0.96	1.07	0.94	1.00
501	1.58	1.04	4.73	7.83	9.08	7.87	1.66	1.16	0.87

PATHWAY SORT	ANVOA Contrasts								
	<u>T1-21</u> T1-14	<u>T1-28</u> T1-21	<u>T2-7</u> T2-0	<u>T2-14</u> T2-0	<u>T2-21</u> T2-0	<u>T2-28</u> T2-0	<u>T2-14</u> T2-7	<u>T2-21</u> T2-14	<u>T2-28</u> T2-21
515	1.63	0.65	1.08	1.06	0.91	0.90	0.98	0.86	0.99
517	1.35	1.11	1.60	1.97	2.39	2.61	1.24	1.21	1.09
519	1.78	0.83	1.13	1.07	0.66	1.10	0.95	0.62	1.66
521	1.09	0.95	0.96	1.00	0.89	0.98	1.04	0.89	1.11
523	0.81	1.00	0.81	0.76	0.87	0.88	0.94	1.14	1.02
524	0.78	0.97	1.08	1.06	0.74	1.06	0.98	0.70	1.44
527	0.47	0.81	1.02	0.92	0.73	0.85	0.89	0.79	1.17
529	0.50	0.64	0.64	0.38	0.21	0.25	0.59	0.55	1.20
531	0.13	0.41	2.65	0.90	1.78	0.77	0.34	1.98	0.43
532	1.15	0.87	1.21	1.46	0.95	1.04	1.20	0.65	1.10
533	0.58	0.25	0.35	0.07	0.01	0.01	0.19	0.22	0.95
534	0.56	0.40	0.38	0.12	0.06	0.08	0.32	0.50	1.25
535	17.89	1.87	1.32	0.95	0.41	0.38	0.72	0.44	0.93
536	1.39	1.06	3.01	4.71	5.21	6.14	1.56	1.11	1.18
545	1.03	0.41	0.73	0.47	0.43	0.47	0.65	0.91	1.09
546	1.13	0.99	0.88	0.96	0.98	0.92	1.09	1.03	0.93
548	1.15	1.05	1.23	1.08	1.00	1.35	0.88	0.92	1.36
549	1.36	0.82	1.13	1.36	1.31	1.31	1.20	0.96	1.00
551	6.51	2.88	1.10	2.71	1.58	1.11	2.46	0.58	0.71
557	0.56	0.61	0.93	0.78	0.73	0.62	0.84	0.94	0.85
559	0.48	1.13	0.49	0.81	0.93	0.89	1.64	1.16	0.95
561	0.23	0.68	1.24	0.81	0.85	0.82	0.65	1.05	0.97
565	0.55	0.58	1.00	1.00	1.19	1.00	1.00	1.19	0.84
566	1.28	0.84	0.89	1.14	0.85	1.01	1.29	0.74	1.20
569	1.64	0.99	1.13	0.95	0.77	1.61	0.84	0.81	2.08

PATHWAY AY SORT	ANVOA Contrasts								
	<u>T1-21</u> T1-14	<u>T1-28</u> T1-21	<u>T2-7</u> T2-0	<u>T2-14</u> T2-0	<u>T2-21</u> T2-0	<u>T2-28</u> T2-0	<u>T2-14</u> T2-7	<u>T2-21</u> T2-14	<u>T2-28</u> T2-21
570	1.43	0.66	0.87	1.32	1.15	1.35	1.52	0.87	1.17
579	1.00	0.65	0.85	0.80	0.68	0.63	0.94	0.85	0.93
582	1.19	0.93	1.47	1.51	1.43	1.73	1.03	0.95	1.21
591	1.17	1.05	1.06	1.08	0.96	1.19	1.02	0.89	1.24
594	1.42	0.72	1.12	1.12	1.13	1.83	1.00	1.01	1.62
598	1.30	0.72	1.40	1.38	1.40	1.91	0.98	1.02	1.36
601	1.14	0.90	1.08	1.12	1.00	0.93	1.03	0.89	0.93
602	1.47	1.05	1.13	1.25	1.16	1.19	1.11	0.92	1.03
603	0.86	0.69	0.90	0.63	0.49	0.23	0.69	0.78	0.46
604	1.41	0.94	1.38	1.25	1.31	2.00	0.90	1.06	1.52
608	1.28	1.00	1.60	1.44	1.34	2.03	0.90	0.93	1.52
609	1.52	1.02	1.19	0.94	1.13	1.84	0.79	1.20	1.63
610	1.21	1.07	1.58	1.18	1.55	2.09	0.75	1.31	1.35
611	1.31	1.14	1.52	1.84	1.87	3.19	1.21	1.01	1.71
613	1.41	1.08	1.57	1.62	1.83	2.94	1.03	1.13	1.61
618	1.05	0.60	0.88	0.68	0.53	0.62	0.77	0.79	1.17
619	1.04	0.65	1.57	1.61	1.08	1.39	1.02	0.67	1.29
620	1.11	0.62	1.99	2.85	2.60	2.87	1.44	0.91	1.10
621	0.94	0.83	1.95	2.44	1.89	2.26	1.25	0.77	1.20
622	0.99	0.99	1.77	2.27	1.78	1.98	1.28	0.79	1.11
625	0.91	0.98	1.15	1.23	1.20	1.40	1.07	0.98	1.16
629	1.17	0.90	1.69	1.84	1.69	2.12	1.09	0.92	1.25
630	0.71	0.91	0.84	1.13	1.17	2.11	1.35	1.03	1.80
631	1.31	0.89	1.38	1.37	1.27	1.80	0.99	0.93	1.42
632	1.29	0.84	1.26	1.18	1.08	1.63	0.94	0.91	1.52
633	1.37	0.72	1.51	1.28	1.51	1.90	0.85	1.18	1.26
635	1.17	0.88	1.40	1.47	1.25	2.11	1.05	0.86	1.68
636	1.24	0.87	1.45	1.25	1.31	1.99	0.86	1.05	1.52
637	1.24	0.84	1.40	1.34	1.19	1.78	0.95	0.89	1.50
639	0.97	0.97	1.16	1.16	1.25	1.23	1.01	1.07	0.99
641	2.62	1.26	1.00	0.47	0.76	0.79	0.47	1.60	1.05
655	1.27	1.00	1.35	1.25	1.25	2.20	0.92	1.00	1.75
658	1.11	0.94	1.03	0.51	0.94	1.31	0.50	1.85	1.39
659	1.65	1.14	1.34	1.06	1.26	2.22	0.79	1.20	1.75
665	1.64	0.98	1.93	0.91	1.62	1.69	0.47	1.79	1.04
670.01	1.01	1.23	8.66	12.28	13.05	17.23	1.42	1.06	1.32
672	1.21	1.04	20.38	25.50	25.76	35.35	1.25	1.01	1.37
706	1.98	0.58	0.81	0.78	0.62	0.95	0.96	0.79	1.55
714	1.27	1.06	1.07	1.70	1.44	2.31	1.59	0.85	1.61
721	1.44	1.27	2.76	4.39	5.74	7.70	1.59	1.31	1.34
735	0.56	1.92	0.27	0.43	0.68	0.36	1.59	1.57	0.54

PATHWAY SORT	ANVOA Contrasts								
	<u>T1-21</u> T1-14	<u>T1-28</u> T1-21	<u>T2-7</u> T2-0	<u>T2-14</u> T2-0	<u>T2-21</u> T2-0	<u>T2-28</u> T2-0	<u>T2-14</u> T2-7	<u>T2-21</u> T2-14	<u>T2-28</u> T2-21
742	1.17	1.01	1.79	2.05	1.84	3.00	1.14	0.90	1.63
744	1.25	0.96	1.95	2.06	1.83	3.14	1.06	0.89	1.72
809	1.03	0.87	0.87	0.80	0.66	0.74	0.91	0.83	1.12
811	2.34	0.51	1.09	1.97	0.95	0.90	1.81	0.48	0.94
819	1.03	0.95	0.93	1.06	0.82	0.96	1.14	0.77	1.17
820	0.97	1.02	1.02	1.07	0.95	1.07	1.05	0.88	1.13
821	1.09	0.97	0.96	0.98	0.92	1.06	1.01	0.94	1.16
822	1.01	0.92	0.88	0.85	0.73	0.82	0.96	0.85	1.13
823	1.61	0.92	0.55	0.62	0.48	0.82	1.12	0.77	1.72
825	1.23	0.84	1.01	1.05	1.01	1.00	1.03	0.97	0.99
833	1.52	0.81	2.03	3.45	4.07	3.72	1.70	1.18	0.91
834	1.50	0.76	2.58	4.84	5.74	5.02	1.88	1.19	0.88
835	1.64	0.63	2.72	4.32	5.10	4.49	1.59	1.18	0.88
840	0.98	1.30	0.88	0.93	0.89	1.03	1.06	0.95	1.16
849	0.92	1.02	0.98	0.90	1.02	1.11	0.91	1.14	1.08
851	0.98	1.06	0.73	0.63	0.62	0.68	0.87	0.98	1.09
876	1.36	1.02	1.45	1.88	1.52	1.09	1.29	0.81	0.72
877	1.08	0.70	0.98	1.32	0.80	0.98	1.35	0.61	1.23
881	1.03	1.01	1.11	1.00	0.96	1.12	0.90	0.97	1.16
882	0.59	0.70	0.83	0.83	0.69	0.80	0.99	0.84	1.16
883	1.08	1.04	0.91	0.87	0.82	0.91	0.95	0.94	1.12
890	1.06	1.02	1.04	1.17	1.01	0.90	1.12	0.86	0.89
905	1.44	1.12	2.37	3.43	3.36	4.88	1.45	0.98	1.45
909	2.30	0.45	0.69	0.53	0.59	0.75	0.77	1.11	1.27
915	1.95	0.79	0.85	0.34	0.41	0.48	0.40	1.20	1.17
919	1.26	0.68	0.69	0.51	0.52	0.56	0.74	1.02	1.07
920	1.07	0.84	4.08	5.20	8.12	6.42	1.27	1.56	0.79
922	1.12	0.70	3.34	4.26	6.59	6.56	1.28	1.55	1.00
923	1.14	0.84	1.93	3.11	4.03	3.60	1.61	1.30	0.89
926	1.27	1.15	1.69	1.78	3.46	2.22	1.05	1.94	0.64
929	1.88	0.63	2.49	2.26	5.93	6.83	0.90	2.63	1.15
930	1.19	0.93	2.56	3.00	7.07	5.34	1.17	2.36	0.75
934	1.37	0.81	2.27	2.54	5.85	5.47	1.12	2.31	0.93
935	1.31	0.90	1.61	1.28	4.11	3.04	0.79	3.22	0.74
936	2.06	0.56	2.35	2.09	5.40	5.77	0.89	2.59	1.07
937	1.67	0.69	1.90	1.70	2.69	2.46	0.89	1.59	0.92
938	1.63	0.60	0.80	0.60	0.61	0.86	0.76	1.02	1.40
939	1.07	0.93	2.66	2.31	4.75	3.27	0.87	2.06	0.69

PATHWAY SORT	ANVOA Contrasts								
	<u>T1-21</u> T1-14	<u>T1-28</u> T1-21	<u>T2-7</u> T2-0	<u>T2-14</u> T2-0	<u>T2-21</u> T2-0	<u>T2-28</u> T2-0	<u>T2-14</u> T2-7	<u>T2-21</u> T2-14	<u>T2-28</u> T2-21
945	1.12	1.02	3.16	3.53	6.63	3.77	1.12	1.88	0.57
970	0.86	0.94	1.08	1.33	1.44	1.83	1.23	1.08	1.28
1004	1.15	0.92	1.00	1.10	0.98	0.99	1.10	0.89	1.01
1005	1.13	0.89	0.85	0.96	0.86	0.93	1.13	0.90	1.08
1018	1.01	1.17	1.11	1.43	1.05	0.96	1.29	0.73	0.92
1020	1.14	0.97	1.02	1.11	1.00	1.02	1.09	0.90	1.02
1024	1.40	0.95	0.54	0.73	0.65	0.74	1.36	0.88	1.14
1034	1.41	1.13	0.78	0.89	0.80	0.92	1.14	0.90	1.14
1057	0.92	0.79	0.36	0.36	0.90	0.73	1.00	2.52	0.81
1059	1.82	0.85	0.75	1.13	0.79	0.45	1.51	0.70	0.57
1098	1.23	0.88	1.13	4.90	15.19	30.64	4.33	3.10	2.02
1101	1.53	1.03	2.01	2.94	2.01	2.62	1.46	0.69	1.30
1105	0.90	0.66	0.75	0.52	0.38	0.32	0.69	0.73	0.84
1106	1.02	0.92	1.17	1.13	1.60	2.27	0.97	1.42	1.42
1114	2.07	0.98	1.15	1.15	1.13	1.90	1.00	0.98	1.68
1116	1.18	0.74	0.90	0.71	0.67	0.81	0.79	0.94	1.22
1128	1.18	0.61	0.89	0.89	0.62	0.81	1.01	0.69	1.31
1149	1.22	0.83	0.92	0.83	0.73	0.88	0.90	0.88	1.21
1150	2.45	0.66	0.46	0.49	0.50	0.71	1.08	1.01	1.42
1180	0.97	1.16	1.29	1.42	1.43	1.98	1.10	1.01	1.39
1181	1.07	0.87	0.96	0.79	0.69	0.87	0.83	0.87	1.27
1199	1.28	0.93	0.99	1.05	0.95	1.06	1.06	0.90	1.12
1202	1.41	0.65	1.09	0.94	0.98	1.17	0.86	1.04	1.20
1212	0.81	0.78	1.29	1.63	2.59	1.14	1.26	1.59	0.44
1216	1.04	0.67	1.06	1.75	2.04	1.60	1.65	1.16	0.78
1221	1.15	1.04	1.13	1.13	1.18	1.22	1.00	1.04	1.03
1224	0.92	0.93	1.04	1.66	1.98	1.03	1.59	1.19	0.52
1232	0.94	0.81	0.98	0.95	0.81	0.80	0.97	0.85	0.99
1242	1.08	0.93	1.01	0.98	0.90	0.95	0.97	0.93	1.05

PATHWAY AY SORT	ANVOA Contrasts								
	<u>T1-21</u> T1-14	<u>T1-28</u> T1-21	<u>T2-7</u> T2-0	<u>T2-14</u> T2-0	<u>T2-21</u> T2-0	<u>T2-28</u> T2-0	<u>T2-14</u> T2-7	<u>T2-21</u> T2-14	<u>T2-28</u> T2-21
1242.1	0.81	1.07	0.92	0.98	0.90	0.82	1.07	0.91	0.91
1243	1.06	1.05	1.01	1.01	0.95	1.00	1.00	0.94	1.05
1266	1.30	0.81	0.93	0.97	0.97	0.83	1.05	0.99	0.86
1288	1.11	0.90	0.90	0.91	0.84	0.93	1.01	0.92	1.12
1300	1.08	0.98	0.95	0.97	0.86	0.93	1.01	0.89	1.08
1318	1.30	0.93	1.11	1.19	1.04	0.97	1.08	0.87	0.94
1360	1.00	0.62	1.01	0.90	0.54	0.58	0.89	0.60	1.07
1469	1.17	0.81	0.95	0.95	0.91	1.00	1.00	0.95	1.10
1531	1.33	0.68	1.01	0.59	0.65	0.57	0.59	1.10	0.87
1565	1.14	0.97	0.93	0.88	0.76	0.97	0.95	0.87	1.27
1584	1.04	1.07	1.09	1.01	0.89	1.11	0.93	0.88	1.25
1585	0.94	1.10	0.89	0.94	0.88	0.74	1.06	0.93	0.84
1612	1.14	0.93	0.90	0.91	0.84	0.84	1.01	0.93	1.00
1613	0.89	1.08	1.07	1.18	1.11	1.05	1.10	0.94	0.94
1614	1.29	0.96	0.84	1.40	0.86	1.06	1.66	0.61	1.23
1615	0.49	1.45	1.23	0.95	0.82	1.02	0.77	0.86	1.24
1632	1.69	1.15	1.29	1.69	1.87	2.15	1.31	1.11	1.15
1662	1.15	0.81	0.82	0.94	0.87	0.95	1.15	0.93	1.09