

Experiment title:
Organism/Plant species:
Organ/tissue:
Analytical tool:

Free Amino Acids measurements of m-Tyr treated Arabidopsis seedlings
 Arabidopsis thaliana seedlings
 5-day-old whole seedlings
 GC-qTOF-MS

Peak/compound #- number of compound found
 RT - retention time
 Putative Name- putative identification of the metabolite/derivative
 Corresponding metabolite name in literature
 Mol. Formula- molecular formula of the metabolite
 Mass to charge ratio (m/z)
 Standard - Standard compound used for identification (Sigma catalog number)

Peak/compound #	Putative name	Metabolite name	Molecular formula	m/z	RT(min)	Metabolite class
1	L-Alanine, 2TMS	Alanine	C ₃ H ₇ NO ₂	116.0892	4.667	Amino acid
2	Alanine (3TMS)	Alanine	C ₃ H ₇ NO ₂	188.126	7.233	Amino acid
3	Arginine, 3TMS	Arginine	C ₆ H ₁₄ N ₄ O ₂	157.124	11.302	Amino acid
4	Asparagine (4TMS)	Asparagine	C ₄ H ₈ N ₂ O ₃	216.1254	9.054	Amino acid
5	Asparagine, 3TMS	Asparagine	C ₄ H ₈ N ₂ O ₃	116.0915	10.458	Amino acid
6	L-Aspartic acid, 2TMS	Aspartic Acid	C ₄ H ₇ NO ₄	160.081	8.568	Amino acid
7	L-Aspartic acid, 3TMS	Aspartic Acid	C ₄ H ₇ NO ₄	232.1168	8.907	Amino acid
8	Cysteine, 3TMS	Cysteine	C ₃ H ₇ NO ₂ S	100.065	6.985	Amino acid
9	L-Glutamic acid, 3TMS	Glutamic acid	C ₅ H ₉ NO ₅	246.1336	9.738	Amino acid
10	L-Glutamine, 3TMS	Glutamine	C ₅ H ₁₀ N ₂ O ₃	156.0778	11.256	Amino acid
11	Glycine, 3TMS	Glycine	C ₂ H ₅ NO ₂	174.1269	6.735	Amino acid
12	L-Histidine, 3TMS	Histidine	C ₆ H ₉ N ₃ O ₂	154.525	14.723	Amino acid
13	L-Isoleucine TMS	Isoleucine	C ₆ H ₁₃ NO ₂	188.1089	6.058	Amino acid
14	L-Isoleucine, 2TMS s	Isoleucine	C ₆ H ₁₃ NO ₂	158.1399	6.615	Amino acid
15	L-Leucine, TMS	Leucine	C ₆ H ₁₃ NO ₂	86.0959	5.772	Amino acid
16	Lysine (4TMS)	Lysine	C ₆ H ₁₄ N ₂ O ₂	317.2294	11.551	Amino acid
17	L-Methionine, 2TMS	Methionine	C ₅ H ₁₁ NO ₂ S	176.0909	9.241	Amino acid
18	Phenylalanine, 2TMS	Phenylalanine	C ₉ H ₉ NO ₂	218.1079	10.197	Amino acid
19	Proline (1TMS)	Proline	C ₅ H ₉ NO ₂	70.0671	6.309	Amino acid
20	L-Proline, 2TMS	Proline	C ₅ H ₉ NO ₂	142.1065	6.949	Amino acid
21	L-Serine	Serine	C ₃ H ₇ NO ₃	116.052	6.751	Amino acid
22	Serine, 3TMS	Serine	C ₃ H ₇ NO ₃	204.1271	7.236	Amino acid
23	L-Threonine, 2TMS	Threonine	C ₄ H ₉ NO ₃	130.069	7.015	Amino acid
24	L-Threonine, 3TMS	Threonine	C ₄ H ₉ NO ₃	218.1351	7.405	Amino acid
25	L-Tryptophan, 3TMS	Tryptophane	C ₁₁ H ₁₂ N ₂ O ₂	202.1016	14.523	Amino acid
26	L-Tyrosine, 3TMS	Tyrosine	C ₉ H ₉ NO ₃	280.1575	12.283	Amino acid
27	L-Valine, TMS	Valine	C ₅ H ₁₁ NO ₂	72.0825	5.059	Amino acid
28	L-Valine, 2TMS	Valine	C ₅ H ₁₁ NO ₂	144.1201	5.814	Amino acid
29	Ribitol	Ribitol	C ₅ H ₁₂ O ₅	319.1626	9.606	Sugar alcohol