

Table S5 A list of detected metabolites by GC-MS. All identifications are based on minimum metabolite reporting standards (Sumner *et al.* 2007).

Variables ID	RT	RI	Metabolite	MSI ID level
7	389.978	1100	Alanine	1
12	470.578	1227.9	Valine	1
15	479.478	1242	Leucine	1
18	498.828	1272.7	Isoleucine	1
24	529.928	1322.1	Glycine	1
26	545.628	1347	Phosphate	1
28	555.528	1362.7	Threonine	1
30	563.478	1375.4	Serine	2
36	617.228	1460.7	Uracil	1
41	658.228	1535.7	Aspartic acid	1
44	692.778	1611.6	Methionine	1
45	702.478	1632.9	Arabinose	1
47	717.278	1665.4	Glutamine	1
49	732.628	1699.2	Pyroglutamic acid	1
52	749.528	1736.3	Phenylalanine	2
54	768.978	1779.1	Ornithine	1
56	775.128	1792.6	Mannose	2
65	796.628	1839.8	Citric Acid	2
68	812.028	1873.7	Lysine	1
82	864.578	2007.7	Tyrosine	2
89	886.878	2066.9	Tyramine	1
92	907.178	2120.8	Adenine	1
100	966.728	2278.9	Octadecanoic acid	1
112	1046.68	2491.2	Tryptophan	2

Code: ID, identifier on plots; RT, retention time; RI, retention index; MSI, Metabolomics Standards Initiative

References

- Sumner, L. W., Amberg, A., Barrett, D., Beale, M. H., Beger, R., Daykin, C. A., Fan, T. W. M., *et al.* (2007). Proposed minimum reporting standards for chemical analysis. *Metabolomics*, 3, 211-221.
- Winder, C. L., Dunn, W. B., Schuler, S., Broadhurst, D., Jarvis, R., Stephens, G. M., & Goodacre, R. (2008). Global metabolic profiling of *Escherichia coli* cultures: an evaluation of methods for quenching and extraction of intracellular metabolites. *Analytical Chemistry*, 80, 2939-2948.