

Supplementary Table 1 - Intra day variability

compound	Cpd ID	parent	medRt	SD1_500fmol_01	SD1_500fmol_02	SD1_500fmol_03	SD1_500fmol_04	SD1_500fmol_05	STD DEV	MEAN	CV
L-Alanine	C00041	90.05556	1.56	7.43E+07	7.11E+07	7.05E+07	6.16E+07	6.94E+07	4.72E+06	6.94E+07	6.81%
L-Arginine	C00062	175.1188	1.55	3.17E+07	3.58E+07	3.35E+07	3.30E+07	3.46E+07	1.59E+06	3.37E+07	4.70%
L-Aspartate	C00049	134.0448	1.58	2.44E+07	2.27E+07	2.43E+07	2.43E+07	2.30E+07	8.33E+05	2.38E+07	3.51%
L-Glutamate	C00025	148.0603	1.57	6.01E+07	5.71E+07	5.98E+07	5.89E+07	5.85E+07	1.20E+06	5.89E+07	2.04%
L-Histidine	C00135	156.0767	1.51	8416361	8041556	8299436	8095296	8183054	1.52E+05	8.21E+06	1.86%
L-Isoleucine	C00407	132.1019	2.34	2.61E+08	2.56E+08	2.55E+08	2.49E+08	2.46E+08	6.07E+06	2.54E+08	2.39%
L-Leucine	C00123	132.1019	2.45	3.02E+08	2.95E+08	3.14E+08	2.96E+08	2.78E+08	1.30E+07	2.97E+08	4.38%
L-Lysine	C00047	147.1127	1.30	9585913	9143761	8874257	9028893	9188429	2.65E+05	9.16E+06	2.89%
L-Methionine	C00073	150.0583	2.11	1.19E+08	1.08E+08	1.14E+08	1.17E+08	1.09E+08	4.91E+06	1.13E+08	4.33%
L-Phenylalanine	C00079	166.0861	3.86	5.67E+08	5.70E+08	5.37E+08	5.64E+08	5.89E+08	1.84E+07	5.65E+08	3.26%
L-Proline	C00148	116.0708	1.61	2.33E+08	2.46E+08	2.45E+08	2.31E+08	2.43E+08	7.06E+06	2.39E+08	2.95%
L-Serine	C00065	106.0503	1.56	5884118	5388939	5542038	5658588	5233367	2.50E+05	5.54E+06	4.51%
L-Threonine	C00188	120.0657	1.56	2.79E+07	2.53E+07	2.65E+07	2.70E+07	2.49E+07	1.22E+06	2.63E+07	4.62%
L-Tyrosine	C00082	182.081	2.43	2.29E+08	2.20E+08	2.15E+08	2.01E+08	2.19E+08	1.03E+07	2.17E+08	4.74%
L-Valine	C00183	118.0865	2.01	6.13E+07	5.77E+07	5.68E+07	6.09E+07	5.53E+07	2.61E+06	5.84E+07	4.46%
MEDIAN CV											4.33%