

Supplementary Table 2

Metabolite name	Pathway	Concentrations (pmol injected)									r	r2
		0	5	50	75	250	500	750	2500	5000		
D-Glucose	GLYCOLYSIS	0.00E+00	6.09E+04	1.08E+05	2.49E+05	6.66E+05	1.05E+06	1.98E+06	4.84E+06	8.65E+06	0.9966	0.9932
Glucose 6-phosphate		0.00E+00	1.10E+05	1.40E+06	2.70E+06	8.40E+06	1.45E+07	2.50E+07	9.30E+07	1.60E+08	0.9972	0.9945
Fructose 1,6-bisphosphate		0.00E+00	1.84E+07	5.01E+07	8.59E+07	1.69E+08	2.84E+08	7.40E+08	1.90E+09	3.70E+09	0.998	0.9967
Lactate	TCA	0.00E+00	9.01E+05	6.71E+05	6.55E+05	5.94E+06	1.48E+07	2.65E+07	1.29E+08	2.60E+08	0.9985	0.9971
Citrate		0.00E+00	5.46E+05	3.86E+06	4.01E+06	1.55E+07	3.42E+07	1.08E+08	3.25E+08	7.24E+08	0.9979	0.9957
alpha-Ketoglutarate		0.00E+00	3.70E+04	2.40E+05	3.90E+05	8.50E+05	2.00E+06	2.70E+06	8.30E+06	1.50E+07	0.9985	0.9970
Fumarate	GLUTATH.	0.00E+00	1.04E+06	2.68E+06	2.60E+06	4.07E+06	6.36E+06	1.30E+07	2.88E+07	5.49E+07	0.9971	0.9942
Malate		0.00E+00	1.56E+06	1.23E+07	2.69E+07	5.47E+07	1.08E+08	2.40E+08	5.10E+08	1.06E+09	0.9969	0.9938
Glutamate		0.00E+00	4.67E+06	2.43E+07	1.00E+08	2.06E+08	4.83E+08	8.16E+08			0.9946	0.9893
Glycine	Co-Factor	0.00E+00	1.00E+06	1.05E+07	1.60E+07	3.50E+07	5.79E+07	7.60E+07	2.12E+08	4.38E+08	0.9991	0.9981
Reduced Glutathione (GSH)		0.00E+00	3.28E+07	2.31E+08	5.22E+08	9.95E+08	1.61E+09	2.25E+09	6.50E+09	1.04E+10	0.9927	0.9854
Oxidized Glutathione (GSSG)		0.00E+00	4.00E+05	7.90E+06	1.60E+07	4.00E+07	9.00E+07	1.40E+08			0.9987	0.9973
NADH		0.00E+00	9.15E+03	4.34E+05	3.42E+06	2.93E+07	5.86E+07	1.96E+08	5.10E+08	1.15E+09	0.9973	0.9945