

Supplementary Table 3 - Matrix effects in Red Blood Cell extracts

N.	compound	SD1/RBC1	SD1/RBC2	SD1/RBC3
1	L-Arginine	7.37	9.97	8.85
3	L-Cysteine	4.26	2.39	11.27
4	L-Citrulline	5.25	4.81	5.13
5	L-Glutamate	2.72	3.33	3.71
6	L-Histidine	2.06	2.28	2.18
7	trans-L-3-Hydroxyproline	6.03	10.88	8.36
8	Isoleucine	1.15	1.75	1.70
9	L-Lysine	1.18	1.15	1.23
10	L-Methionine	2.77	3.54	3.37
11	Ornithine	1.54	1.31	1.27
12	L-Proline	0.50	0.41	0.32
13	L-Serine	3.19	3.99	4.05
14	L-Threonine	2.30	2.80	2.20
15	L-Tyrosine	1.53	2.06	2.43
	MEDIAN	2.51	2.59	2.90
	STDEV	1.96	3.02	3.18
	TOT MEDIAN Fold change	2.59		
	TOT STDEV	0.66		

RBC replicate #1						R (Pearson correlation)
pmol injected	0.00	0.50	2.50	5.00		
L-Arginine	1.65E+05	4.05E+05	3.94E+06	3.30E+06	L-Arginine	0.82
L-Cysteine	5.28E+03	5.59E+04	2.63E+05	2.45E+05	L-Cysteine	0.87
L-Citrulline	9.11E+05	9.02E+05	3.01E+06	3.66E+06	L-Citrulline	0.96
L-Glutamate	2.46E+06	2.86E+06	4.29E+06	4.27E+06	L-Glutamate	0.89
L-Histidine	2.43E+06	2.74E+06	3.96E+06	4.61E+06	L-Histidine	0.98
trans-L-3-Hydroxyproline	1.05E+05	4.17E+05	3.65E+06	5.47E+06	trans-L-3-Hydroxyproline	0.98
Isoleucine	5.91E+07	7.32E+07	9.23E+07	1.01E+08	Isoleucine	0.94
L-Lysine	3.80E+06	4.31E+06	5.81E+06	6.19E+06	L-Lysine	0.94
L-Methionine	4.95E+06	8.04E+06	1.87E+07	2.57E+07	L-Methionine	0.99
Ornithine	2.21E+06	2.45E+06	2.79E+06	3.65E+06	Ornithine	0.99
L-Proline	7.32E+07	7.70E+07	9.85E+07	1.01E+08	L-Proline	0.92
L-Serine	1.09E+06	9.53E+05	1.41E+06	1.44E+06	L-Serine	0.87
L-Threonine	3.13E+06	3.30E+06	3.94E+06	4.50E+06	L-Threonine	1.00
L-Tyrosine	1.60E+07	1.81E+07	2.45E+07	2.69E+07	L-Tyrosine	0.96
					Mean	0.95

RBC replicate #2						
pmol injected	0.00	0.50	2.50	5.00		
L-Arginine	2.76E+05	5.63E+05	1.69E+06	2.90E+06	L-Arginine	1.00
L-Cysteine	1.68E+05	2.04E+05	3.72E+05	4.38E+05	L-Cysteine	0.97
L-Citrulline	1.53E+06	1.82E+06	3.19E+06	4.00E+06	L-Citrulline	0.98
L-Glutamate	2.17E+06	2.44E+06	3.50E+06	4.40E+06	L-Glutamate	1.00
L-Histidine	2.59E+06	2.71E+06	3.37E+06	3.68E+06	L-Histidine	0.98
trans-L-3-Hydroxyproline	1.31E+05	7.89E+04	2.02E+06	4.57E+06	trans-L-3-Hydroxyproline	0.99
Isoleucine	5.39E+07	5.23E+07	6.05E+07	8.49E+07	Isoleucine	0.96
L-Lysine	4.73E+06	5.15E+06	5.91E+06	7.05E+06	L-Lysine	1.00
L-Methionine	3.55E+06	5.19E+06	1.41E+07	2.12E+07	L-Methionine	0.99
Ornithine	2.48E+06	2.66E+06	3.28E+06	3.64E+06	Ornithine	0.98
L-Proline	9.55E+07	1.08E+08	1.19E+08	1.30E+08	L-Proline	0.95
L-Serine	8.23E+05	8.28E+05	9.31E+05	1.15E+06	L-Serine	0.98
L-Threonine	2.02E+06	2.35E+06	3.24E+06	3.68E+06	L-Threonine	0.97
L-Tyrosine	1.10E+07	1.26E+07	1.83E+07	2.10E+07	L-Tyrosine	0.97
					Mean	0.98

RBC replicate #3						
pmol injected	0.00	0.50	2.50	5.00		
L-Arginine	3.99E+04	3.47E+05	3.29E+06	2.75E+06	L-Arginine	0.83
L-Cysteine	3.74E+03	4.07E+03	7.38E+04	1.58E+05	L-Cysteine	1.00
					SD	0.01
					CV	0.02

L-Citrulline	1.60E+06	1.73E+06	2.94E+06	4.27E+06	L-Citrulline	1.00
L-Glutamate	1.71E+06	2.21E+06	3.07E+06	4.02E+06	L-Glutamate	0.99
L-Histidine	2.32E+06	2.84E+06	3.63E+06	3.94E+06	L-Histidine	0.94
trans-L-3-Hydroxyproline	4.83E+05	4.39E+05	2.63E+06	6.12E+06	trans-L-3-Hydroxyproline	0.99
Isoleucine	4.27E+07	4.63E+07	6.25E+07	8.01E+07	Isoleucine	1.00
L-Lysine	4.37E+06	4.37E+06	5.51E+06	6.19E+06	L-Lysine	0.98
L-Methionine	2.24E+06	4.30E+06	1.32E+07	2.22E+07	L-Methionine	1.00
Ornithine	2.60E+06	2.70E+06	3.36E+06	3.88E+06	Ornithine	0.99
L-Proline	1.45E+08	1.61E+08	1.52E+08	1.73E+08	L-Proline	0.75
L-Serine	7.93E+05	7.44E+05	1.03E+06	1.16E+06	L-Serine	0.97
L-Threonine	3.42E+06	3.51E+06	4.12E+06	4.43E+06	L-Threonine	0.98
L-Tyrosine	8.65E+06	1.02E+07	1.55E+07	2.19E+07	L-Tyrosine	1.00
					Mean	0.99
					SD	0.07
					CV	0.08

	RBC 0	RBC 1	RBC 2	AVG
R	0.95	0.98	0.99	0.97
STDEV	0.05	0.01	0.07	0.05
CV	0.06	0.02	0.08	0.05