

Supplementary Table 2. Fold changes in metabolite concentrations in animals on HCD versus SD.

	LIVER	KIDNEY	BRAIN	MUSCLE	PLASMA	Urinary output	URINE	EF
Analyte fold difference – HCD versus SD								
Total cysteine	0.92	0.97	0.90	0.62	0.95	1.19	1.07	1.00
Methionine cycle related analytes								
Methionine	0.91	0.99	0.94	1.10	0.82*	1.11	0.98	1.25
Total homocysteine	1.00	0.96	0.84	1.17	1.10*	1.24	1.14	1.00
Met/tHcy	0.91	1.04	1.31	1.42	0.74*	0.82	0.82	-
Choline	1.08	1.00	0.98	1.98*	1.09	1.21	1.04	1.10
Betaine	0.49*	0.72*	0.77*	0.83	0.64*	0.68*	0.61*	1.14
Dimethylglycine	0.51*	0.63*	0.55	0.93	0.63*	0.77	0.70*	1.14
Sarcosine	0.83	0.77*	0.79	1.00	0.70*	0.61*	0.55*	0.87
Cysteine catabolism – decarboxylation pathway analytes								
Hypotaurine	1.03	1.10	1.13*	1.45	0.94	2.29*	2.08*	2.66*
Taurine	4.52*	1.23*	0.82*	1.50*	1.12	3.31*	2.98*	2.93*
Cysteine catabolism – transamination pathway analytes								
Sulfite	1.06	1.06	1.00	1.23	0.77	0.96	0.83	1.04
Sulfate	NA	NA	NA	NA	0.93	1.67*	1.49*	1.74*
Decarboxylation/Transamination pathways ratio								
Tau/sulfate					1.20	2.00*	2.00*	
Cysteine catabolism – desulhydration and related analytes								
Hydrogen sulfide	1.15	1.17	NA	NA	2.29*	NA	NA	NA
Thiosulfate	0.92	0.94	0.81	1.00	0.80	1.44*	1.29*	2.20*
Thiocyanate	0.83	0.93	0.84*	1.28	1.30*	1.64*	1.40	1.17
S-sulfocysteine	ND	ND	ND	ND	1.01	1.51*	1.37*	1.60*
Lanthionine	ND	0.95	1.09	1.60*	0.91	1.54	1.41	1.64
Glutathion metabolism analytes								
Glutathione	0.99	1.08	0.85	1.39	0.76*	1.26	1.12	2.00*
γ-glutamylcysteine	1.24	1.07	1.06	0.97	0.87	ND	ND	NA
Cysteinylglycine	0.97	1.04	1.00	0.67	0.96	1.19	1.05	1.14

NA, not analysed, ND, not determined, below the LLQ, The differences were calculated from the corresponding means in the rat group on HCD and SD; * **bold**, significant difference.