

Supplementary Table 5 - Absolute quantitation through heavy labeled spiked in internal standards in three different matrices

	BALF	Plasma	Lymph
<b>CVs on raw values (%)</b>			
13C-Arginine	10.57%	17.52%	5.85%
13C-Lysine	6.00%	7.85%	6.02%
13C15N-Glutamine	11.95%	21.55%	18.32%
<b>Measurable fold change (2:1 theoretical)</b>			
13C-Arginine	1.32±0.11 (8.2%)	2.00±0.10 (4.9%)	2.07±0.06 (2.8%)
13C-Lysine	2.14±0.13 (6.2%)	2.05±0.18 (8.9%)	2.07±0.04 (1.9%)
13C15N-Glutamine	2.00±0.21 (10.5%)	2.15±0.4 (17%)	2.84±0.52 (18%)
<b>Absolute quantitation (uM - (CV))</b>			
<b>Arginine</b>			
Control	1.79±0.39 (21.9%)	157.51±11.73 (7.4%)	
T/SS pre-shock		122.79±14.64 (11.9%)	
T/SS post-shock	1.51±0.09 (6.5%)	114.37±10.00 (8.7%)	
T/SS + MLD pre-shock		159.21±9.47 (5.9%)	182.69±38.09 (20.8%)
T/SS + MLD post-shock	4.23±0.5 (11.8%)	99.82±8.80 (8.8%)	206.69±27.84 (13.5%)
T/HS pre-shock		157.70±4.93 (3.1%)	
T/HS post-shock	3.04 ±0.17 (5.7%)	195.44±3.58 (1.8%)	
T/HS + MLD pre-shock		131.04±13.6 (10.4%)	172.67±21.29 (12.3%)
T/HS + MLD post-shock	7.30±0.23 (3.2%)	182.70±20.64 (11.3%)	181.67 ± 21.29 (12.3%)
<b>MEDIAN CVs (± SD)</b>	<b>12.5±8.4%</b>	<b>8.9±3.5%</b>	<b>12.3±7.1%</b>
<b>Lysine</b>			
Control	4.85±0.79 (16.3%)	322.56±27.17 (8.4%)	
T/SS pre-shock		271.54 ±32.83 (12.1%)	
T/SS post-shock	4.50±0.20 (4.4%)	260.21±25.11 (9.6%)	
T/SS + MLD pre-shock		370.70±29.31 (7.9%)	182.69±38.09 (20.8%)
T/SS + MLD post-shock	12.69±1.00 (7.9%)	308.13±24.14 (7.8%)	206.69±27.84 (13.5%)
T/HS pre-shock		357.70±24.45 (6.8%)	
T/HS post-shock	9.61±0.43 (4.5%)	547.64±12.56 (2.3%)	
T/HS + MLD pre-shock		278.86±26.18 (9.4%)	172.67±21.29 (12.3%)
T/HS + MLD post-shock	31.04 ±1.42 (4.6%)	648.23±84.88 (13.1%)	181.67±12.37 (6.8%)
<b>MEDIAN CVs (± SD)</b>	<b>10.5±5.9%</b>	<b>8.9±3.3%</b>	<b>12.3±7.1%</b>
<b>Glutamine</b>			
Control	7.31±0.73 (10.0%)	610±57.97 (9.5%)	
T/SS pre-shock		532.48±73.42 (13.8%)	
T/SS post-shock	9.20±0.77 (8.4%)	582.04±46.53 (8.0%)	
T/SS + MLD pre-shock		683.54±76.11 (11.1%)	767.73±57.89 (7.5%)
T/SS + MLD post-shock	38.25±2.88 (7.5%)	621.06±59.60 (9.6%)	828.87±119.74 (14.4%)
T/HS pre-shock		770.18±43.53 (5.65%)	
T/HS post-shock	18.29±0.49 (2.7%)	1096.56±26.91 (2.45%)	
T/HS + MLD pre-shock		616.76±46.04 (7.5%)	706.97±38.53 (5.4%)
T/HS + MLD post-shock	72.89±3.75 (5.1%)	1009.57±101.77 (10.1%)	735.06±32.26 (4.4%)
<b>MEDIAN CVs (± SD)</b>	<b>7.6±3.3%</b>	<b>9.8±2.9%</b>	<b>5.4±1.6%</b>