

**Disposition of Radioactivity 24 Hours Following Intravenous Administration
of 1 mg/kg [^{14}C]L-BMAA to Male B6C3F₁/N Mice (Group O)^a**

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE ^b	Cage Rinse CPDE	Feces CPDE	Volatile Organics CPDE	CO ₂ CPDE	GI Content	Total CPDE
4	0.0260 $\pm$ 0.0552	1.80 $\pm$ 2.87	–	0.0489 $\pm$ 0.0171	43.3 $\pm$ 8.1	–	45.2
8	1.79 $\pm$ 3.42	3.29 $\pm$ 2.98	–	0.150 $\pm$ 0.045	55.9 $\pm$ 7.7	–	61.1
12	2.61 $\pm$ 3.05	5.83 $\pm$ 3.08	–	0.232 $\pm$ 0.050	60.1 $\pm$ 7.6	–	68.8
24 ^c	3.09 $\pm$ 3.97	7.85 $\pm$ 2.92	3.32 $\pm$ 0.81	0.318 $\pm$ 0.053	62.8 $\pm$ 8.1	0.359 $\pm$ 0.046	78.5

Disposition in Tissues

Tissue	nmol-eq/g Mean	nmol-eq/g SD	TBR ^e Mean	TBR SD	% Recovery Mean	% Recovery SD
Blood ^d	0.473	0.124	unity	–	0.254	0.053
Adipose ^d	0.456	0.087	1.01	0.30	0.353	0.061
Muscle ^d	0.956	0.252	2.08	0.47	4.05	0.90
Skin ^d	0.925	0.185	2.05	0.61	1.69	0.34
Brain	0.492	0.039	1.10	0.28	0.0921	0.0083
Heart	0.729	0.159	1.57	0.26	0.0324	0.0051
Kidneys	1.71	0.16	3.76	0.72	0.253	0.013
Liver	4.14	1.44	8.83	1.89	2.47	0.58
Lung	0.916	0.114	2.03	0.47	0.0586	0.0096
Spleen	0.975	0.257	2.10	0.40	0.0226	0.0042
Adrenals	2.38	0.90	5.02	1.18	0.00292	0.00093
Thymus	1.37	0.38	2.99	0.79	0.0213	0.0058
Thyroid	2.29	1.07	4.92	2.34	0.00590	0.00041
Urinary Bladder	1.48	0.49	3.28	1.21	0.0105	0.0042
Pancreas	0.879	0.220	1.87	0.15	0.0750	0.0140
Testes	0.417	0.068	0.929	0.276	0.0277	0.0069
Cecum	0.870	0.111	1.91	0.39	0.0271	0.0059
Large Intestine	0.879	0.331	1.98	0.79	0.0670	0.0260
Small Intestine	1.22	0.17	2.70	0.65	0.322	0.048
Stomach	1.06	0.08	2.38	0.63	0.0556	0.0075

Disposition Summary (Dose Recovered [%])

Sample	% Recovered Mean	% Recovered SD
Urine + Cage Rinse	10.9	2.4
Urine	3.09	3.97
Cage Rinse	7.85	2.92
Feces	3.32	0.81
Volatile Organics	0.318	0.053
CO ₂	62.8	8.1
GI Content	0.359	0.046
Carcass	3.92	0.36
Tissues	10.0	1.6
Total Recovered	88.5	10.4

^aAll values expressed as mean $\pm$ standard deviation (SD) (N = 5). The target dose was 1 mg L-BMAA/kg. The actual dose delivered was 1.03 $\pm$ 0.06 mg/kg (96.6 $\pm$ 5.9 μCi).

^bCumulative percent dose excreted.

^c24 hour (h) urine collection includes urine present in the urinary bladder at study termination.

^dTissue weights for the dispersed tissues were calculated using the following percentages of body weight: adipose 7.0%, blood 4.9%, muscle 38.4%, and skin 16.5% (International Life Sciences Institute, 1994).

^eTBR = Tissue to blood ratio.