Disposition of Radioactivity 24 Hours Following Single Oral Administration of 1 mg/kg [^{14}C]L-BMAA to Male B6C3F$_1$/N Mouse (Group L)[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	0.000837 ± 0.000217	0.116 ± 0.087	-	0.108 ± 0.011	35.8 ± 4.2	-	
8	0.0413 ± 0.0657	0.450 ± 0.223	-	0.310 ± 0.037	49.0 ± 3.8	-	
12	0.0346 ± 0.0603	2.65 ± 2.18	-	0.441 ± 0.035	53.7 ± 3.6	-	
24[c]	1.14 ± 2.42	6.11 ± 1.89	7.78 ± 4.46	0.664 ± 0.064	56.7 ± 3.9	0.351 ± 0.048	72.9

Disposition in Tissues

Tissue	nmol-eq/g Mean	nmol-eq/g SD	TBR[e] Mean	TBR SD	% Recovery Mean	% Recovery SD
Blood[d]	0.444	0.109	unity	–	0.255	0.060
Adipose[d]	0.386	0.169	1.05	0.92	0.322	0.145
Muscle[d]	0.715	0.150	1.82	1.08	3.23	0.72
Skin[d]	0.667	0.152	1.56	0.40	1.29	0.27
Brain	0.314	0.089	0.707	0.090	0.0655	0.0187
Heart	0.501	0.040	1.19	0.32	0.0262	0.0025
Kidneys	1.45	0.12	3.44	0.91	0.254	0.031
Liver	4.61	2.12	12.6	11.6	3.01	1.55
Lung	0.646	0.095	1.52	0.35	0.0448	0.0069
Spleen	0.657	0.046	1.58	0.52	0.0159	0.0029
Adrenals	1.19	0.78	3.10	2.70	0.00164	0.00109
Thymus	1.22	0.12	3.02	1.43	0.0186	0.0065
Thyroid	1.59	0.96	4.25	3.91	0.00425	0.00231
Urinary Bladder	0.984	0.325	2.49	1.49	0.00770	0.00280
Pancreas	0.771	0.059	1.87	0.69	0.0831	0.0096
Testes	0.357	0.050	0.835	0.161	0.0280	0.0061
Cecum	0.663	0.161	1.56	0.46	0.0259	0.0122
Large Intestine	0.787	0.130	1.85	0.43	0.0617	0.0090
Small Intestine	1.08	0.21	2.50	0.47	0.321	0.056
Stomach	0.852	0.063	2.09	0.85	0.0550	0.0055

Disposition Summary (Dose Recovered [%])

Sample	% Recovered Mean	% Recovered SD
Urine + Cage Rinse	7.25	1.85
Urine	1.14	2.42
Cage Rinse	6.11	1.89
Feces	7.78	4.46
Volatile Organics	0.664	0.064
CO_2	56.7	3.9
GI Content	0.351	0.048
Carcass	0.00	0.00
Tissues	9.47	1.99
Total Recovered	**82.3**	**3.8**

[a]All values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 1 mg L-BMAA/kg. The actual dose delivered was 0.978 ± 0.028 mg/kg (94.2 ± 2.7 µCi).
[b]Cumulative percent dose excreted.
[c]24 hour (h) urine collection includes urine present in the urinary bladder at study termination.
[d]Tissue 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).
[e]TBR = tissue to blood ratio.