

**Disposition of Radioactivity 72 Hours Following 10 Days of Oral Gavage Administration of
1 mg/kg [^{14}C]L-BMAA to Male Harlan Sprague Dawley Rats (Group H)^a**

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine ^b		Cage Rinse ^b		Feces ^b		CO ₂ ^b	GI Content	Total ^b
24	4.85	± 1.29	1.43	± 0.44	2.53	± 0.61	56.5 ± 4.4	—	62.3
48	5.36	± 0.52	1.39	± 0.29	2.55	± 0.97	56.5 ± 5.4	—	63.1
72	5.77	± 0.33	1.11	± 0.17	2.58	± 0.65	54.2 ± 3.6	—	63.1
96	5.53	± 0.31	1.02	± 0.12	2.74	± 0.46	55.1 ± 3.3	—	62.0
120	5.65	± 0.25	0.883	± 0.094	2.71	± 0.38	54.5 ± 4.9	—	61.1
144	5.71	± 0.20	1.00	± 0.14	2.58	± 0.39	54.6 ± 3.3	—	61.9
168	5.68	± 0.19	1.13	± 0.15	2.51	± 0.40	55.5 ± 3.6	—	63.2
192	5.67	± 0.20	1.23	± 0.22	2.60	± 0.31	56.0 ± 4.3	—	64.2
216	5.69	± 0.17	1.34	± 0.24	2.73	± 0.32	55.3 ± 3.1	—	65.1
240	5.79	± 0.17	1.36	± 0.21	2.87	± 0.37	53.8 ± 6.1	—	61.4
264	5.94	± 0.14	1.38	± 0.22	2.94	± 0.44	54.5 ± 3.1	—	62.2
288 ^c	6.00	± 0.14	1.41	± 0.22	2.87	± 0.54	55.0 ± 3.2	0.122 ± 0.029	62.8

Disposition in Tissues

Tissue	nmol-eq/g Mean	nmol-eq/g SD	TBR ^d Mean	TBR SD	% Recovery Mean	% Recovery SD
Blood ^d	3.94	0.64	unity	—		0.053
Adipose ^d	17.3	9.7	4.82	3.57	1.43	0.79
Muscle ^d	4.42	0.62	1.16	0.35	2.10	0.28
Skin ^d	8.12	0.69	2.10	0.39	1.82	0.14
Brain	2.44	0.29	0.630	0.111	0.0174	0.0026
Heart	4.64	0.52	1.19	0.17	0.0174	0.0025
Kidneys	9.42	0.95	2.43	0.45	0.0749	0.0087
Liver	20.6	2.3	5.31	0.91	0.984	0.108
Lung	5.23	0.68	1.33	0.07	0.0299	0.0046
Spleen	5.81	0.56	1.49	0.15	0.0173	0.0019
Adrenals	14.2	0.6	3.67	0.58	0.00206	0.00027
Thymus	7.26	0.93	1.85	0.13	0.0110	0.0020
Thyroid	7.16	1.07	1.84	0.34	0.00265	0.00021
Urinary Bladder	6.59	0.95	1.68	0.36	0.00245	0.00052
Pancreas	8.20	1.38	2.14	0.62	0.0458	0.0209
Testes	2.78	0.40	0.709	0.064	0.0426	0.0062
Cecum	6.36	0.85	1.67	0.49	0.0187	0.0047
Large Intestine	5.79	0.64	1.50	0.30	0.0371	0.0040
Small Intestine	6.67	1.07	1.70	0.21	0.120	0.018
Stomach	6.10	0.95	1.57	0.28	0.0366	0.0050

Disposition Summary (Dose Recovered [%])

Sample	% Recovered Mean	% Recovered SD
Urine + Cage Rinse	7.41	0.24
Urine	6.00	0.14
Cage Rinse	1.41	0.22
Feces	2.87	0.54
CO ₂	55.0	3.2
GI Content	0.122	0.029
Carcass	0.0139	0.0311
Tissues	7.16	1.06
Total Recovered	72.6	3.4

^aAll values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 1 mg L-BMAA/kg. The average dose delivered after 10 consecutive days of dosing was 1.05 ± 0.02 mg/kg (56.0 ± 1.2 μCi).

^bData derived by summing the total accumulated radioactivity and dividing by total dose.

^c288 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 7.4%, muscle 40.4%, and skin 19% (International Life Sciences Institute, 1994). TBR = tissue to blood ratio.