

**Disposition of Radioactivity 72 Hours Following Intravenous Bolus Administration of
10 mg/kg [¹⁴C]HMB 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	GI Content	Total
4	0.00766 ± 0.01229	0.153 ± 0.222	—	—	0.161
8	0.0391 ± 0.0521	0.324 ± 0.367	—	—	0.363
12	3.88 ± 6.60	3.36 ± 4.89	—	—	7.23
24	3.89 ± 6.59	9.57 ± 5.17	24.7 ± 8.4	—	38.1
48	3.91 ± 6.57	10.7 ± 4.6	28.3 ± 6.9	—	42.9
72 ^c	4.13 ± 6.45	12.2 ± 4.4	29.2 ± 6.9	0.110 ± 0.037	57.2 ^d

Disposition in Tissues

Tissue	nmol-eq HMB per g Tissue	Tissue/ Blood Ratio	Recovery (%)
Blood ^e	0.152 ± 0.005	unity	0.0186 ± 0.0033
Adipose ^e	0.175 ± 0.034	1.16 ± 0.23	0.0302 ± 0.0041
Muscle ^e	0.0845 ± 0.0105	0.557 ± 0.051	0.0816 ± 0.0210
Skin ^e	0.195 ± 0.161	1.29 ± 1.07	0.0772 ± 0.0578
Brain	0.0625 ± 0.0104	0.412 ± 0.067	0.00247 ± 0.00042
Heart	0.0716 ± 0.0175	0.473 ± 0.113	0.00079 ± 0.00022
Kidneys	0.207 ± 0.064	1.36 ± 0.41	0.00755 ± 0.00252
Liver	0.317 ± 0.053	2.10 ± 0.38	0.0406 ± 0.0005
Lung	0.128 ± 0.020	0.841 ± 0.116	0.00214 ± 0.00051
Spleen	0.0926 ± 0.0038	0.612 ± 0.032	0.00074 ± 0.00012
Adrenals	1.44 ± 0.40	9.52 ± 2.59	0.00055 ± 0.00018
Thymus	0.184 ± 0.035	1.22 ± 0.26	0.00035 ± 0.00004
Thyroid	0.947 ± 0.277	6.28 ± 2.01	0.00025 ± 0.00008
Urinary Bladder	0.878 ± 0.397	5.84 ± 2.70	0.00132 ± 0.00101
Pancreas	0.0865 ± 0.0178	0.572 ± 0.123	0.00182 ± 0.00049
Testes	0.107 ± 0.053	0.710 ± 0.375	0.00183 ± 0.00068
Cecum	0.318 ± 0.121	2.10 ± 0.79	0.00139 ± 0.00028
Large Intestine	0.140 ± 0.092	0.924 ± 0.604	0.00214 ± 0.00111
Small Intestine	0.233 ± 0.075	1.54 ± 0.50	0.00835 ± 0.00232
Stomach	0.112 ± 0.028	0.739 ± 0.185	0.00114 ± 0.00050

Disposition Summary

Sample	% Dose Recovered
Urine + Cage Rinse	16.4 ± 9.9
Urine	4.13 ± 6.45
Cage Rinse	12.2 ± 4.4
Feces	29.2 ± 6.9
Food	11.5 ± 7.4
GI Content	0.110 ± 0.037
Carcass	0.197 ± 0.100
Tail	1.12 ± 0.59
Tissues	0.281 ± 0.071
Total Recovered	58.8 ± 10.7

^aAll values expressed as mean ± standard deviation (SD) (N = 3). The actual dose delivered was 9.52 ± 1.18 mg/kg (86.9 ± 10.8 µCi).

^bCPDE = Cumulative percent dose excreted.

^c72 hour (h) urine collection includes urine present in the urinary bladder at study termination.

^d72 h total CPDE includes 11.5% from food collected (radioactivity likely due to dosed mice urinating on food pellets).

^eTissue 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).