

**Disposition of Radioactivity 24 Hours Following Oral Dose Administration of 8 mg/kg
[¹⁴C] N,N-Dimethylacetamide to Female B6C3F₁ Mice Group 3^a**

Disposition in Non-digestive Tract Tissue

Tissue	ng-eq DMAAm per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue^b
Blood	36.3 ± 25.3	Unity	0.0208 ± 0.0146
Adipose (Total)	107 ± 87	3.89 ± 2.88	0.0938 ± 0.0883
Bladder	232 ± 94	9.32 ± 6.62	0.00269 ± 0.00106
Brain	49.5 ± 27.0	1.76 ± 0.99	0.0138 ± 0.0075
Gall Bladder	761 ± 185	42.6 ± 53.4	0.00218 ± 0.00205
Heart	46.0 ± 22.1	1.73 ± 1.09	0.00320 ± 0.00131
Kidney	97.1 ± 42.8	3.79 ± 2.53	0.0162 ± 0.0070
Liver	219 ± 105	7.60 ± 3.21	0.121 ± 0.063
Lung	122 ± 30	5.92 ± 5.95	0.0106 ± 0.0018
Muscle (Total)	47.7 ± 22.0	1.97 ± 1.69	0.217 ± 0.108
Ovaries	86.9 ± 43.7	3.14 ± 1.71	0.00124 ± 0.00062
Pancreas	64.7 ± 30.5	2.47 ± 1.63	0.00452 ± 0.00232
Skin (ears)	620 ± 427	21.4 ± 14.9	1.21 ± 0.85
Spleen	60.2 ± 28.6	2.25 ± 1.38	0.00191 ± 0.00098
Thymus	67.2 ± 12.2	3.43 ± 3.61	0.00179 ± 0.00038
Thyroid	247 ± 192	8.92 ± 8.31	0.000108 ± 0.000067
Carcass	–	–	0.395 ± 0.713
Total Non-digestive	–	–	1.70 ± 1.10

Disposition in Digestive Tract Tissues and Contents

Tissue	% Dose in Tissue
Stomach and Contents	0.0174 ± 0.0127
Small Intestines and Contents	0.128 ± 0.081
Cecum and Contents	0.116 ± 0.051
Large Intestines and Contents	0.0621 ± 0.0620
Total in Digestive Tract Tissue and Contents	0.323 ± 0.191

Percent Dose Recovered in Excreta

Sample	Collection Interval (h)	% Dose Excreted
Urine	0 – 4	15.9 ± 22.4
Urine	4 – 8	5.2 ± 4.8
Urine	8 – 24 ^c	53.2 ± 16.6
Subtotal Urine	–	74.3 ± 17.6
Feces	0 – 24	3.65 ± 3.35
CO ₂	0 – 24	0.680 ± 0.236
Total Excreted	–	78.6 ± 23.0
Total % Dose Recovered	–	80.6 ± 13.5

^a Values are mean ± standard deviation; n = 5; h = hour.

^b The total body weight of rats was assumed to be comprised of 7.4% blood, 7.0% adipose, 40.4% muscle, and 19% skin (ILSI, 1994).

^c Includes cage rinse and urine present in bladder at time of sacrifice.