

**Disposition of Radioactivity 24 Hours Following Oral Dose Administration of 10 mg/kg
[¹⁴C]N,N-Dimethylacetamide to Male Fischer 344 Rats – Group 1^a**

Disposition in Non-digestive Tract Tissues

Tissue	ng-eq DMAAm per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue^b
Blood	96.4 ± 61.8	Unity	0.0696 ± 0.0448
Adipose (Total)	113 ± 68	1.81 ± 1.56	0.0773 ± 0.0476
Bladder	1692 ± 943	43.0 ± 60.9	0.00852 ± 0.00604
Brain	121 ± 21	2.30 ± 2.36	0.00985 ± 0.00108
Heart	126 ± 11	2.42 ± 2.55	0.00414 ± 0.00049
Kidney	301 ± 43	6.31 ± 7.77	0.0194 ± 0.0092
Liver	461 ± 91	8.67 ± 9.18	0.152 ± 0.087
Lung	270 ± 32	5.03 ± 5.21	0.0114 ± 0.0018
Muscle (Total)	93.0 ± 16.8	1.70 ± 1.66	0.367 ± 0.071
Pancreas	161 ± 21	3.39 ± 4.16	0.00605 ± 0.00116
Skin (ears)	459 ± 66	9.69 ± 12.09	0.850 ± 0.127
Spleen	193 ± 13	3.88 ± 4.44	0.00383 ± 0.00043
Testes	150 ± 24	3.13 ± 3.70	0.0168 ± 0.0029
Thymus	231 ± 23	4.44 ± 4.80	0.00264 ± 0.00045
Thyroid	400 ± 40	7.55 ± 8.17	0.000450 ± 0.000125
Carcass	–	–	0.716 ± 0.291
Total Non-digestive	–	–	2.31 ± 0.37

Disposition in Digestive Tract Tissues and Contents

Tissue	% Dose in Tissue
Stomach and Contents	0.0200 ± 0.0120
Small Intestines and Contents	0.0840 ± 0.0227
Cecum and Contents	0.0686 ± 0.0168
Large Intestines and Contents	0.0520 ± 0.0218
Total in Digestive Tract Tissue and Contents	0.225 ± 0.037

Percent Dose Recovered in Excreta

Sample	Collection Interval (h)	% Dose Excreted
Urine	0 – 4	14.9 ± 4.5
Urine	4 – 8	18.4 ± 6.3
Urine	8 – 24 ^c	55.3 ± 6.1
Subtotal Urine	–	88.7 ± 2.1
Feces	0 – 24	1.56 ± 1.07
CO ₂	0 – 24	2.04 ± 0.41
Total Excreted	0 – 24	92.3 ± 2.8
Total % Dose Recovered	–	94.8 ± 1.3

^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.