

**Disposition of Radioactivity 24 Hours Following Oral Dose Administration of 130 mg/kg
[¹⁴C] N,N-Dimethylacetamide to Male Wistar-Han Rats – Group 5^a**

Disposition in Non-digestive Tract Tissues

Tissue	ng-eq DMAAm per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue^b
Blood	5362 ± 1038	Unity	0.292 ± 0.055
Adipose (Total)	3088 ± 1368	0.569 ± 0.189	0.158 ± 0.067
Bladder	35088 ± 18992	6.883 ± 4.069	0.0127 ± 0.0096
Brain	5385 ± 1122	1.00 ± 0.07	0.0227 ± 0.0035
Heart	4676 ± 1110	0.873 ± 0.120	0.0113 ± 0.0023
Kidney	4729 ± 2057	0.869 ± 0.274	0.0273 ± 0.0111
Liver	10241 ± 1599	1.93 ± 0.17	0.296 ± 0.057
Lung	7138 ± 1297	1.34 ± 0.15	0.0210 ± 0.0034
Muscle (Total)	4800 ± 1109	0.890 ± 0.066	1.422 ± 0.307
Pancreas	5069 ± 1179	0.942 ± 0.079	0.0157 ± 0.0061
Skin (ears)	8747 ± 2036	1.66 ± 0.38	1.220 ± 0.277
Spleen	5380 ± 931	1.01 ± 0.11	0.00804 ± 0.00158
Testes	3776 ± 787	0.704 ± 0.058	0.0301 ± 0.0047
Thymus	6661 ± 1535	1.24 ± 0.11	0.00797 ± 0.00256
Thyroid	9068 ± 1904	1.73 ± 0.38	0.000732 ± 0.000218
Carcass	–	–	0.150 ± 0.349
Total Non-digestive	–	–	3.69 ± 0.93

Disposition in Digestive Tract Tissues and Contents

Tissue	% Dose in Tissue
Stomach and Contents	0.0417 ± 0.0187
Small Intestines and Contents	0.322 ± 0.062
Cecum and Contents	0.302 ± 0.053
Large Intestines and Contents	0.243 ± 0.059
Total in Digestive Tract Tissue and Contents	0.908 ± 0.161

Percent Dose Recovered in Excreta

Sample	Collection Interval (h)	% Dose Excreted
Urine	0 – 4	11.7 ± 4.9
Urine	4 – 8	15.7 ± 5.1
Urine	8 – 12	14.0 ± 3.8
Urine	12 – 24 ^c	46.5 ± 2.7
Subtotal Urine	–	87.9 ± 4.4
Feces	–	1.07 ± 0.28
Total Excreted	–	89.0 ± 4.0
Total % Dose Recovered	–	93.6 ± 4.3

^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.