

**Disposition of Radioactivity 24 Hours Following Oral Dose Administration of 130 mg/kg
[¹⁴C]N,N-Dimethylacetamide to Male Fischer 344 Rats – Group 4^a**

Disposition in Non-digestive Tract Tissues

Tissue	ng-eq DMAAm per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue ^b
Blood	1252 ± 263	Unity	0.0739 ± 0.0157
Adipose (Total)	988 ± 238	0.794 ± 0.166	0.0551 ± 0.0134
Bladder	16734 ± 8851	12.7 ± 5.3	0.00409 ± 0.00178
Brain	1427 ± 253	1.15 ± 0.12	0.00867 ± 0.00132
Heart	1237 ± 310	0.985 ± 0.083	0.00340 ± 0.00113
Kidney	3793 ± 1316	3.20 ± 1.59	0.0225 ± 0.0079
Liver	4958 ± 372	4.07 ± 0.72	0.178 ± 0.012
Lung	2805 ± 410	2.27 ± 0.22	0.00925 ± 0.00142
Muscle (Total)	1060 ± 196	0.853 ± 0.073	0.342 ± 0.065
Pancreas	1779 ± 309	1.44 ± 0.17	0.00506 ± 0.00115
Skin (ears)	5411 ± 705	4.53 ± 1.29	0.820 ± 0.111
Spleen	2034 ± 259	1.65 ± 0.18	0.00308 ± 0.00030
Testes	1700 ± 304	1.37 ± 0.18	0.0144 ± 0.0020
Thymus	2496 ± 357	2.02 ± 0.24	0.00255 ± 0.00054
Thyroid	4777 ± 1039	3.93 ± 1.11	0.000316 ± 0.000072
Carcass	–	–	0.684 ± 0.177
Total Non-digestive	–	–	2.23 ± 0.25

Disposition in Digestive Tract Tissues and Contents

Tissue	% Dose in Tissue
Stomach and Contents	0.0237 ± 0.0036
Small Intestines and Contents	0.114 ± 0.043
Cecum and Contents	0.116 ± 0.019
Large Intestines and Contents	0.0782 ± 0.0291
Total in Digestive Tract Tissue and Contents	0.331 ± 0.071

Percent Dose Recovered in Excreta

Sample	Collection Interval (h)	% Dose Excreted
Urine	0 – 4	10.0 ± 2.5
Urine	4 – 8	16.5 ± 5.3
Urine	8 – 12	14.5 ± 6.7
Urine	12 – 24 ^c	39.0 ± 11.3
Subtotal	–	80.0 ± 7.2
Feces	–	4.41 ± 5.88
Total Excreted	–	84.4 ± 5.7
Total % Dose Recovered	–	87.0 ± 4.9

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

^bThe 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).

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