

**Distribution of Radioactivity 2 Hours Following Oral Administration of 500 mg/kg  
[<sup>14</sup>C]DMAE to Male Wistar Han Rats (DMAE Study M)<sup>a</sup>**

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE <sup>b</sup>	Feces CPDE	Total CPDE
2 <sup>c</sup>	7.28 ± 2.65	0.05 ± 0.1139	7.34 ± 2.67

Distribution in Tissues (2 hours)

Tissue	nmol-eq DMAE/g Mean	nmol-eq DMAE/g SD	TBR <sup>h</sup> Mean	TBR SD	Dose in Total Tissue (%) Mean	Dose in Total Tissue (%) SD
Blood <sup>d</sup>	475	181	Unity	—	0.646	0.246
Adipose <sup>d</sup>	231	111	0.474	0.152	0.299	0.146
Muscle <sup>d</sup>	615	282	1.27	0.23	4.57	2.11
Skin <sup>d</sup>	572	251	1.18	0.18	2.00	0.88
Brain	645	237	1.36	0.23	0.0198	0.0096
Heart	1000	380	2.11	0.31	0.0273	0.0110
Kidneys	5710	1840	12.1	0.6	0.163	0.067
Liver	10000	4040	21.0	2.7	7.48	3.49
Lung	2980	1210	6.26	1.21	0.0829	0.0402
Spleen	1870	820	3.86	0.62	0.0520	0.0260
Thyroid	3040	1980	5.96	3.03	0.00074	0.00046
Urinary Bladder	3840	3060	8.75	8.11	0.0346	0.0536
Testes	553	252	1.14	0.30	0.0167	0.0080
Carcass <sup>e</sup>	NA <sup>f</sup>	—	NA	—	1.69	0.64
Cecum <sup>g</sup>	NA	—	NA	—	0.125	0.046
Large intestine <sup>g</sup>	NA	—	NA	—	0.180	0.069
Small intestine <sup>g</sup>	NA	—	NA	—	2.05	1.12
Stomach <sup>g</sup>	NA	—	NA	—	64.3	15.1

Disposition Summary [Dose Recovered (%)]

Tissues and GI Tract	Excreted	Total
83.8 ± 6.9	7.34 ± 2.67	91.1 ± 5.3

<sup>a</sup>All values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 500 mg DMAE/kg. The actual dose delivered was 497 ± 4 mg/kg (51.5 ± 0.4 µCi).

<sup>b</sup>CPDE = Cumulative percent dose excreted.

<sup>c</sup>2 hour (h) urine collection includes urine present in the urinary bladder at study termination.

<sup>d</sup>Percent of dose in these tissues calculated using the following percentages of body weight: adipose 7.0%, blood 7.4%, muscle 40.4%, and skin 19%.

<sup>e</sup>Carcass values are based on the residual digested carcass after the removal of the listed tissues (i.e., percent dose measured in skin, adipose, blood, and muscle was subtracted from the total percent dose measured in the carcass).

<sup>f</sup>NA = Not applicable.

<sup>g</sup>includes contents.

<sup>h</sup>TBR = Tissue to blood ratio.