

**Disposition of Radioactivity 24 Hours Following Intravenous Administration of 20 mg/kg  
[<sup>14</sup>C] 2,2'-Dimorpholinodiethyl ether to Male Harlan Sprague Dawley Rats (Group G)<sup>a</sup>**

**Dose Recovered in Excreta (%)**

End of Collection Period (h)	Urine CPDE <sup>b</sup>	Cage Rinse CPDE	Feces CPDE	GI Content	Total CPDE
4	25.7 ± 6.8	8.42 ± 3.69	–	–	34.1
8	42.5 ± 11.9	15.6 ± 4.8	–	–	58.1
12	49.6 ± 11.2	18.0 ± 5.6	–	–	67.6
24 <sup>c</sup>	59.7 ± 10.6	20.1 ± 6.2	3.07 ± 1.14	1.38 ± 1.14	84.3

**Disposition in Tissues**

Tissue	nmol-eq/g Mean	nmol-eq/g SD	TBR Mean	TBR SD	% Recovery Mean	% Recovery SD
Blood <sup>d</sup>	3.55	0.79	Unity	–	0.323	0.076
Adipose <sup>d</sup>	1.98	0.68	0.543	0.101	0.170	0.057
Muscle <sup>d</sup>	3.62	1.67	0.985	0.354	1.79	0.83
Skin <sup>d</sup>	8.56	2.69	2.38	0.41	2.01	0.70
Brain	6.41	1.92	1.78	0.22	0.0497	0.0169
Heart	9.29	3.61	2.58	0.67	0.0331	0.0113
Kidneys	57.5	18.6	15.8	2.5	0.483	0.171
Liver	63.7	22.3	17.5	3.4	3.09	1.04
Lung	16.3	6.0	4.44	0.97	0.0979	0.0349
Spleen	44.9	16.8	12.2	2.8	0.155	0.061
Adrenals	22.8	9.1	6.27	1.74	0.00452	0.00134
Thymus	7.41	3.25	2.01	0.65	0.0174	0.0070
Thyroid	61.2	33.1	17.7	8.8	0.00159	0.00090
Urinary Bladder	9.10	4.87	2.42	1.04	0.00281	0.00195
Pancreas	7.50	2.59	2.06	0.40	0.0275	0.0105
Testes	4.36	1.97	1.22	0.43	0.0649	0.0351
Cecum	8.63	3.30	2.52	0.97	0.0293	0.0070
Large Intestine	8.67	2.67	2.40	0.36	0.0556	0.0202
Small Intestine	11.7	5.2	3.19	0.98	0.267	0.112
Stomach	6.11	2.25	1.75	0.55	0.0342	0.0132

**Disposition Summary**

Sample	% Dose Recovered
Urine + Cage Rinse	79.8 ± 8.1
Urine	59.7 ± 10.6
Cage Rinse	20.1 ± 6.2
Feces	3.07 ± 1.14
GI Content	1.38 ± 1.14
Carcass	0.392 ± 0.437
Tissues	9.100 ± 2.93
<b>Total Recovered</b>	<b>93.4 ± 6.7</b>

<sup>a</sup>All values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 20 mg DMDEE/kg. The actual dose delivered was 20.1 ± 1.1 mg/kg (45.7 ± 2.5 µCi).

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

<sup>c</sup>24 hour (h) urine collection includes urine present in the urinary bladder at study termination.

<sup>d</sup>Tissue weights for the dispersed tissues were calculated using the following percentages of body weight: adipose 7.0%, blood 7.4%, muscle 40.4%, and skin 19% (International Life Sciences Institute, 1994).

TBR = Tissue to blood ratio.