Disposition of Radioactivity 72 Hours Following Oral Administration of 200 mg/kg [^{14}C] 2,2'-Dimorpholinodiethyl ether to Male B6C3F$_1$/N Mice (Group L)[a]

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE[b]	Cage Rinse CPDE	Feces CPDE	Volatile Organics CPDE	CO_2 CPDE	GI Content	Total CPDE
4	0.00895 ± 0.01012	9.76 ± 6.81	–	0.0514 ± 0.0217	0.698 ± 0.152	–	10.5
8	5.53 ± 11.87	19.6 ± 12.4	–	0.110 ± 0.023	1.26 ± 0.16	–	26.5
12	7.31 ± 15.19	32.7 ± 8.8	–	0.190 ± 0.033	1.73 ± 0.16	–	42.0
24	7.47 ± 15.26	37.4 ± 9.5	39.1 ± 20.0	0.280 ± 0.047	2.47 ± 0.32	–	86.6
48	7.81 ± 15.54	37.8 ± 9.4	41.9 ± 21.1	0.343 ± 0.057	3.08 ± 0.16	–	90.9
72[c]	7.88 ± 15.51	38.2 ± 9.2	42.3 ± 21.2	0.376 ± 0.058	3.61 ± 0.18	0.374 ± 0.831	93.3

Disposition in Tissues

Tissue	nmol-eq/g Mean	nmol-eq/g SD	TBR Mean	TBR SD	% Recovery Mean	% Recovery SD
Blood[d]	1.67	2.01	unity	–	0.00922	0.01133
Adipose[d]	1.31	0.63	1.41	0.82	0.0102	0.0051
Muscle[d]	2.15	0.36	3.44	3.45	0.0925	0.0180
Skin[d]	72.3	21.8	130	159	1.34	0.45
Brain	2.68	0.62	3.65	3.14	0.00578	0.00164
Heart	3.26	0.39	5.13	4.72	0.00149	0.00024
Kidneys	16.6	1.8	27.6	28.4	0.0252	0.0023
Liver	24.8	2.2	39.5	37.7	0.145	0.018
Lung	5.26	1.56	8.65	8.91	0.00335	0.00073
Spleen	32.9	11.5	62.8	69.8	0.00618	0.00172
Adrenals	25.6	28.6	19.5	17.9	0.00029	0.00032
Thymus	6.97	6.31	9.76	15.77	0.00075	0.00053
Thyroid	13.4	5.7	23.9	23.9	0.00040	0.00014
Urinary Bladder	4.01	2.37	7.79	9.64	0.00030	0.00018
Pancreas	3.97	0.85	6.44	5.98	0.00352	0.00090
Testes	2.63	0.72	3.49	2.83	0.00192	0.00047
Cecum	1.74	0.31	2.71	2.69	0.00071	0.00010
Large Intestine	6.00	3.39	8.91	8.84	0.00540	0.00307
Small Intestine	3.14	0.23	4.67	4.09	0.0110	0.0020
Stomach	2.75	0.80	3.56	2.44	0.00167	0.00034

Disposition Summary

Sample	% Dose Recovered
Urine + Cage Rinse	46.3 ± 18.9
Urine	7.88 ± 15.51
Cage Rinse	38.2 ± 9.2
Feces	42.3 ± 21.2
Volatile Organics	0.376 ± 0.058
CO_2	3.61 ± 0.18
GI Content	0.374 ± 0.831
Carcass	0.000 ± 0.000
Tissues	1.67 ± 0.46
Total Recovered	**95.0 ± 13.5**

[a]All values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 200 mg DMDEE/kg. The actual dose delivered was 214 ± 7 mg/kg (86.9 ± 3.0 µCi).
[b]CPDE = Cumulative percent dose excreted.
[c]72 hour (h) urine collection includes urine present in the urinary bladder at study termination.
[d]Tissue weights for the dispersed tissues were calculated using the following percentages of body weight: adipose 7.0%, blood 4.9%, muscle 38.4%, and skin 16.5% (International Life Sciences Institute, 1994).
TBR = Tissue to blood ratio.