

Recovery of Radioactivity 72 Hours Following Oral Gavage Administration
of 100 mg/kg [^{14}C]2-Methyltetrahydrofuran to Male F344 Rats (Study B)^a

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE ^b	Feces CPDE	Volatile Organics ^c CPDE	CO ₂ ^c CPDE	Total CPDE
6	11.6 ± 6.8	d	27.4 ± 1.1	28.6 ± 1.2	67.6 ± 6.7
12	17.6 ± 4.3	0.0463 ± 0.0633	27.8 ± 0.8	36.9 ± 3.5	82.3 ± 6.7
24	21.7 ± 1.4	0.325 ± 0.146	27.9 ± 0.9	39.6 ± 3.7	89.5 ± 2.3
46	22.0 ± 1.3	0.661 ± 0.113	27.9 ± 0.9	41.2 ± 3.0	91.8 ± 1.6
72 ^e	22.2 ± 1.3	0.932 ± 0.051	27.9 ± 0.9	42.4 ± 2.9	93.5 ± 1.5

Distribution in Tissues (72 hours)

Tissue	nmol-eq MTHF per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue
Adipose ^f	100 ± 15	0.342 ± 0.073	0.426 ± 0.115
Urinary bladder	182 ± 79	0.574 ± 0.108	0.0162 ± 0.0097
Blood ^f	307 ± 94	Unity	1.90 ± 0.58
Brain	129 ± 50	0.430 ± 0.128	0.0720 ± 0.0278
Heart	199 ± 82	0.642 ± 0.128	0.0539 ± 0.0201
Kidney	420 ± 80	1.43 ± 0.33	0.267 ± 0.021
Liver	263 ± 182	0.969 ± 0.721	0.997 ± 0.759
Lung	156 ± 26	0.528 ± 0.098	0.0574 ± 0.0066
Muscle ^f	57.7 ± 8.0	0.200 ± 0.065	2.17 ± 0.44
Skin ^f	113 ± 4	0.397 ± 0.143	1.79 ± 0.01
Spleen	186 ± 39	0.623 ± 0.101	0.0302 ± 0.0027
Testis	96.2 ± 25.1	0.324 ± 0.074	0.0982 ± 0.0216
Stomach ^g	NA ^h	NA	0.0880 ± 0.0212
Small intestine ^g	NA	NA	0.193 ± 0.017
Cecum ^g	NA	NA	0.0821 ± 0.0142
Large intestine ^g	NA	NA	0.0683 ± 0.0206
carcass ⁱ	NA	NA	0.00 ± 0.00

Disposition Summary [Dose Recovered (%)]

Tissues	Excreted	Total
8.32 ± 0.87	93.5 ± 1.5	102 ± 1

^aAll values expressed as mean ± standard deviation (SD) (N=3). The target dose was 100 mg MTHF/kg. The actual dose delivered was 103 ± 3 mg/kg (8.83 ± 0.16 μCi).

^bCPDE = cumulative percent dose excreted.

^cVolatile organics and CO₂ in exhaled breath.

^dThe first feces collection was 0-12 h.

^e72 hour (h) urine collection includes urine present in the urinary bladder at study termination.

^fPercent of dose in these tissues calculated using the following percentages of body weight: adipose 7.0%, blood 7.4%, muscle 40.4%, and skin 19.0%.

^gIncludes contents.

^hNA = Not applicable.

ⁱCarcass 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).