

Recovery of Radioactivity 72 Hours Following Oral Gavage Administration of 100 mg/kg [ $^{14}\text{C}$ ]2-Methyltetrahydrofuran to Male B6C3F<sub>1</sub> Mice (Study A)<sup>a</sup>

## Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE <sup>b</sup>	Feces CPDE	Volatile Organics <sup>c</sup> CPDE	CO <sub>2</sub> <sup>c</sup> CPDE	Total CPDE
6	46.0 ± 9.8	d	17.4 ± 3.8	30.3 ± 0.9	93.7 ± 10.6
12	65.9 ± 18.5	3.84 ± 2.70	17.6 ± 3.8	32.0 ± 1.2	119 ± 15
24	67.6 ± 18.9	6.04 ± 5.04	17.6 ± 3.9	32.5 ± 1.2	124 ± 14
48	68.2 ± 19.1	6.21 ± 5.08	17.6 ± 3.9	33.3 ± 1.4	125 ± 14
72 <sup>e</sup>	68.4 ± 19.1	6.36 ± 5.06	17.6 ± 3.9	33.8 ± 1.4	126 ± 14

## Distribution in Tissues (72 hours)

Tissue	nmol-eg MTHF per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue
Adipose <sup>f</sup>	70.9 ± 12.3	3.17 ± 0.33	0.328 ± 0.037
Urinary bladder	42.3 ± 16.3	2.16 ± 1.07	0.0129 ± 0.0174
Blood <sup>f</sup>	22.5 ± 4.4	Unity	0.856 ± 0.0151
Brain	21.7 ± 0.9	0.989 ± 0.168	0.0228 ± 0.0027
Heart	35.4 ± 13.8	1.56 ± 0.39	0.0129 ± 0.0025
Kidney	92.9 ± 11.0	4.25 ± 1.02	0.114 ± 0.011
Liver	52.5 ± 3.4	2.40 ± 0.47	0.277 ± 0.020
Lung	45.8 ± 5.1	2.10 ± 0.54	0.0222 ± 0.0041
Muscle <sup>f</sup>	28.9 ± 4.2	1.30 ± 0.19	0.972 ± 0.176
Skin <sup>f</sup>	70.7 ± 11.5	3.19 ± 0.63	0.904 ± 0.120
Spleen	49.0 ± 6.8	2.24 ± 0.51	0.0093 ± 0.0011
Testis	29.7 ± 3.6	1.34 ± 0.14	0.0139 ± 0.0012
Stomach <sup>g</sup>	Na <sup>h</sup>	NA	0.0256 ± 0.0034
Small intestine <sup>g</sup>	NA	NA	0.105 ± 0.006
Cecum <sup>g</sup>	NA	NA	0.0201 ± 0.0029
Large intestine <sup>g</sup>	NA	NA	0.329 ± 0.0046
Carcass <sup>i</sup>	NA	NA	0.00 ± 0.00

## Disposition Summary [Dose Recovered (%)]

Tissues	Excreted	Total
2.96 ± 0.36	126 ± 14	129 ± 15

<sup>a</sup>All values expressed as mean ± standard deviation (SD) (N=4). The target dose was 100 mg MTHF/kg. The actual dose delivered was 111 ± 4 mg/kg (11.9 ± 1.3  $\mu\text{Ci}$ ).

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

<sup>c</sup>Volatile organics and CO<sub>2</sub> in exhaled breath.

<sup>d</sup>The first feces collection was 0-12 h.

<sup>e</sup>72 hour (h) urine collection includes urine present in the urinary bladder at study termination.

<sup>f</sup>Percent of dose in these tissues calculated using the following percentages of body weight: adipose 7.0%, blood 4.9%, muscle 38.4%, and skin 16.5%.

<sup>g</sup>Includes contents.

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

<sup>i</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).