

Recovery of Radioactivity 24 Hours Following Oral Gavage Administration  
of 1 mg/kg [ $^{14}\text{C}$ ]2-Methyltetrahydrofuran to Male B6C3F<sub>1</sub> Mice (Study C)<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	50.3 ± 6.8	d	0.81 ± 0.32	30.3 ± 2.0	81.4 ± 25.0
12	60.8 ± 8.0	1.32 ± 1.06	0.84 ± 0.33	32.4 ± 2.1	95.4 ± 28.7
24 <sup>e</sup>	64.0 ± 7.1	1.82 ± 1.08	0.85 ± 0.33	33.4 ± 2.3	100 ± 30

## Distribution in Tissues (24 hours)

Tissue	nmol-eq MTHF per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue
Adipose <sup>f</sup>	1.19 ± 0.55	3.02 ± 0.75	0.540 ± 0.198
Urinary bladder	1.43 ± 0.44	3.96 ± 1.75	0.007 ± 0.000
Blood <sup>f</sup>	0.437 ± 0.305	Unity	0.177 ± 0.134
Brain	0.512 ± 0.228	1.30 ± 0.31	0.057 ± 0.031
Heart	0.564 ± 0.099	1.61 ± 0.64	0.019 ± 0.004
Kidney	2.18 ± 0.37	6.24 ± 2.41	0.233 ± 0.028
Liver	1.36 ± 0.30	3.77 ± 1.25	0.787 ± 0.417
Lung	1.25 ± 0.16	3.84 ± 2.08	0.048 ± 0.007
Muscle <sup>f</sup>	0.466 ± 0.153	1.54 ± 0.68	2.08 ± 0.44
Skin <sup>f</sup>	1.10 ± 0.15	3.17 ± 1.31	1.47 ± 0.22
Spleen	1.34 ± 0.12	3.90 ± 1.65	0.025 ± 0.005
Testis	0.566 ± 0.148	1.56 ± 0.53	0.030 ± 0.014
stomach <sup>g</sup>	NA <sup>h</sup>	NA	0.080 ± 0.028
Small intestine <sup>g</sup>	NA	NA	0.350 ± 0.085
Cecum <sup>g</sup>	NA	NA	0.055 ± 0.012
Large Intestine <sup>g</sup>	NA	NA	0.073 ± 0.023
Carcass <sup>i</sup>	NA	NA	0.00 ± 0.00

## Disposition Summary [Dose Recovered (%)]

Tissues	Excreted	Total
6.03 ± 1.24	100 ± 6	106 ± 6

<sup>a</sup>All values expressed as mean ± standard deviation (SD) (N=4). The target dose was 1 mg MTHF/kg. The actual dose delivered was 1.06 ± 0.05 mg/kg (5.98 ± 0.56  $\mu\text{Ci}$ ).

<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>24 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).