

Recovery of Radioactivity 24 Hours Following Intravenous Administration of 1 mg/kg [ $^{14}\text{C}$ ]2-Methyltetrahydrofuran to Male B6C3F<sub>1</sub> Mice (Study G)<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
3	44.3 ± 12.3	d	4.15 ± 1.34	21.5 ± 5.6	69.9 ± 15.1
6	55.7 ± 7.9	d	4.27 ± 1.43	27.0 ± 5.8	86.9 ± 9.4
12	59.8 ± 7.2	0.191 ± 0.088	4.31 ± 1.42	29.7 ± 7.3	94.0 ± 6.6
24 <sup>e</sup>	61.3 ± 7.9	0.390 ± 0.122	4.33 ± 1.41	31.3 ± 7.6	97.3 ± 6.8

## Distribution in Tissues (24 hours)

Tissue	nmol-eq MTHF per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue
Adipose <sup>f</sup>	0.532 ± 0.069	0.797 ± 0.286	0.311 ± 0.056
Urinary bladder	1.10 ± 0.62	1.59 ± 0.84	0.0103 ± 0.0035
Blood <sup>f</sup>	0.725 ± 0.221	Unity	0.299 ± 0.112
Brain	0.995 ± 0.603	1.75 ± 1.68	0.0898 ± 0.0481
Heart	1.02 ± 0.58	1.52 ± 0.88	0.0381 ± 0.0191
Kidney	1.67 ± 1.28	2.03 ± 1.35	0.195 ± 0.141
Liver	3.42 ± 2.02	5.61 ± 4.77	1.36 ± 1.00
Lung	1.09 ± 0.62	1.35 ± 1.07	0.0596 ± 0.0299
Muscle <sup>f</sup>	0.491 ± 0.187	0.698 ± 0.214	1.59 ± 0.65
Skin <sup>f</sup>	1.97 ± 1.60	3.63 ± 4.41	2.77 ± 2.35
Spleen <sup>g</sup>	0.722 ± 0.378	1.20 ± 0.95	0.0155 ± 0.0162
Testis	0.565 ± 0.345	0.795 ± 0.403	0.0542 ± 0.0326
Stomach <sup>h</sup>	NA <sup>i</sup>	NA	0.0959 ± 0.0269
Small intestine <sup>h</sup>	NA	NA	0.414 ± 0.162
Cecum <sup>h</sup>	NA	NA	0.0935 ± 0.0336
Large Intestine <sup>h</sup>	NA	NA	0.193 ± 0.168
Carcass <sup>j</sup>	NA	NA	0.00 ± 0.00
Tail <sup>k</sup>	NA	NA	0.153 ± 0.034

## Disposition Summary [Dose Recovered (%)]

Tissues	Excreted	Total
7.59 ± 2.95	97.3 ± 6.8	103 ± 7

<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 1.04 ± 0.14 mg/kg (4.73 ± 0.59  $\mu\text{Ci}$ ).

<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>Spleen data for G003 not included; N=3.

<sup>h</sup>Includes contents.

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

<sup>j</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).

<sup>k</sup>Tail was processed separately from the carcass.