## Recovery of Radioactivity 24 Hours Following Oral Gavage Administration of 1 mg/kg [<sup>14</sup>C]2-Methyltetrahydrofuran to Male F344 Rats (Study D)<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> ° CPDE	Total CPDE
6	17.0 ± 2.6	d	1.14 ± 0.23	47.3 ± 5.3	65.4 ± 23.4
12	21.1 ± 1.1	0.268 ± 0.217	1.17 ± 0.24	53.6 ± 3.4	76.1 ± 26.5
24 <sup>e</sup>	22.3 ± 1.0	0.737 ± 0.236	1.21 ± 0.23	55.9 ± 3.3	80.1 ± 27.6

## Distribution in Tissues (24 hours)

Tissue	nmol-eq MTHF	Tissue/Blood	% Dose in
113346	per g Tissue	Ratio	Total Tissue
Adlpose <sup>†</sup>	1.90 ± 0.63	1.42 ± 0.35	1.06 ± 0.36
Urinary bladder	2.74 ± 1.14	2.29 ± 0.73	$0.029 \pm 0.038$
Blood <sup>f</sup>	1.32 ± 0.18	Unity	0.791 ± 0.108
Brain	$2.53 \pm 0.63$	1.96 ± 0.58	0.145 ± 0.041
Heart	$2.34 \pm 0.26$	1.80 ± 0.31	$0.064 \pm 0.005$
Kidney	6.73 ± 0.73	5.22 ± 1.16	$0.421 \pm 0.042$
Liver	5.98 ± 1.73	4.73 ± 2.08	2.16 ± 0.57
Lung	2.42 ± 0.26	1.88 ± 0.45	0.075 ± 0.031
Muscle <sup>†</sup>	1.12 ± 0.16	0.86 ± 0.175	$3.73 \pm 0.51$
Skin <sup>f</sup>	2.73 ± 0.29	2.08 ± 0.13	$4.21 \pm 0.43$
Spleen	$3.12 \pm 0.96$	2.43 ± 0.88	$0.053 \pm 0.016$
Testis	1.69 ± 0.24	1.31 ± 0.34	$0.159 \pm 0.023$
Stomach <sup>g</sup>	NA <sup>h</sup>	NA	$0.161 \pm 0.016^{1}$
Small intestine <sup>9</sup>	NA	NA	$0.932 \pm 0.119$
Cecum <sup>g</sup>	NA	NA	$0.309 \pm 0.042^{j}$
Large intestine <sup>g</sup>	NA	NA	0.173 ± 0.018 <sup>k</sup>
Carcass	NA	NA	1.06 ± 0.66

## Disposition Summary [Dose Recovered (%)]

Tissues	Excreted	Total
15.3 ± 1.2	80.2 ± 3.5	95.5 ± 3.6

<sup>&</sup>lt;sup>a</sup>All values expressed as mean  $\pm$  standard deviation (SD) (N=4). The target dose was 1 mg MTHF/kg. The actual dose delivered was 1.06  $\pm$  0.02 mg/kg (9.85  $\pm$  0.16  $\mu$ Ci).

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

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

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

<sup>&</sup>lt;sup>e</sup>24 hour (h) urine collection includes urine present in the urinary bladder at study termination.

<sup>&</sup>lt;sup>1</sup>Percent 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%.

<sup>&</sup>lt;sup>g</sup>Includes contents.

<sup>&</sup>lt;sup>h</sup>NA = Not applicable.

Sample processing accident. D001 not included in calculations.

Sample processing accident. D005 not included in calculations.

<sup>&</sup>lt;sup>k</sup>Sample processing accident. D004 and D006 not included in calculations.

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).