

**Disposition of Radioactivity 24 Hours Following Oral Gavage Administration  
of 4 mg/kg [<sup>14</sup>C]DTBBA to Male B6C3F<sub>1</sub>/N Mouse (Group J)<sup>a</sup>**

## Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE <sup>b</sup>	Cage Rinse CPDE	Feces CPDE	Volatile Organics CPDE	CO <sub>2</sub> CPDE	GI Content	Total CPDE
4	0.251 ± 0.431	3.94 ± 3.10	-	0.106 ± 0.029	1.10 ± 0.33	-	-
8	2.76 ± 3.97	17.0 ± 13.1	-	0.222 ± 0.044	1.94 ± 0.31	-	-
12	3.09 ± 4.57	20.6 ± 14.9	-	0.352 ± 0.042	2.82 ± 0.42	-	-
24 <sup>c</sup>	3.17 ± 4.57	25.5 ± 14.1	27.9 ± 3.7	0.479 ± 0.072	3.92 ± 0.58	0.260 ± 0.152	61.9

## Disposition in Tissues

Tissue	nmol-eq/g Mean	nmol-eq/g SD	TBR <sup>e</sup> Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Blood <sup>d</sup>	0.0400	0.0088	unity	-	0.0183	0.0041
Adipose <sup>d</sup>	0.0271	0.0080	0.615	0.186	0.0177	0.0052
Muscle <sup>d</sup>	0.0162	0.0033	0.365	0.074	0.0582	0.0132
Skin <sup>d</sup>	0.0371	0.0090	0.843	0.218	0.0572	0.0142
Brain	0.0157	0.0098	0.352	0.208	0.00261	0.00171
Heart	0.0249	0.0025	0.563	0.061	0.00109	0.00017
Kidneys	0.0488	0.0093	1.10	0.21	0.00691	0.00151
Liver	0.120	0.006	2.72	0.15	0.0640	0.0044
Lung	0.0319	0.0053	0.721	0.119	0.00186	0.00027
Spleen	0.0180	0.0040	0.408	0.092	0.000409	0.000052
Adrenals	0.397	0.190	9.14	4.74	0.000511	0.000127
Thymus	0.103	0.172	2.27	3.74	0.00126	0.00207
Thyroid	0.147	0.071	3.32	1.54	0.000416	0.000090
Urinary Bladder	0.140	0.097	3.22	2.21	0.00122	0.00089
Pancreas	0.0211	0.0054	0.480	0.131	0.00189	0.00058
Testes	0.0207	0.0059	0.475	0.163	0.00139	0.00039
Cecum	0.148	0.084	3.39	2.06	0.00574	0.00419
Large Intestine	0.0557	0.0058	1.26	0.19	0.00409	0.00082
Small Intestine	0.0465	0.0099	1.06	0.26	0.00979	0.00111
Stomach	0.102	0.053	2.33	1.30	0.00443	0.00152

## Disposition Summary—Dose Recovered (%)

Sample	Percent Recovered Mean	Percent Recovered SD
<b>Urine + Cage Rinse</b>	<b>28.7</b>	<b>12.4</b>
Urine	3.17	4.57
Cage Rinse	25.5	14.1
Feces	27.9	3.7
Volatile Organics	0.479	0.072
CO <sub>2</sub>	3.92	0.58
GI Content	0.260	0.152
Carcass	0.0562	0.0336
Tissues	0.575	0.198
<b>Total Recovered</b>	<b>62.5</b>	<b>15.4</b>

<sup>a</sup>All values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 4 mg DTBBA/kg. The actual dose delivered was 4.71 ± 0.7 mg/kg (88.9 ± 1.3 μCi).

<sup>b</sup>CPDE = Cumulative percent dose excreted

<sup>c</sup>24 hour (h) urine collection included urine present in the urinary bladder at study termination.

<sup>d</sup>Tissue weights for the dispersed tissues were calculated using the following percentages of body weight: adipose 7.0%, blood 4.9%, muscle 38.4%, and skin 16.5% (International Life Sciences Institute, 1994).

<sup>e</sup>TBR = tissue to blood ratio