

**Disposition of Radioactivity 24 Hours Following Oral Gavage Administration  
of 40 mg/kg [<sup>14</sup>C]DTBBA to Female B6C3F<sub>1</sub>/N Mice (Group P)<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	0.183 ± 0.282	8.99 ± 4.88	-	0.182 ± 0.049	1.03 ± 0.17	-	-
8	3.92 ± 7.16	18.6 ± 3.6	-	0.366 ± 0.062	2.09 ± 0.17	-	-
12	4.15 ± 7.29	21.6 ± 4.9	-	0.512 ± 0.075	3.08 ± 0.20	-	-
24 <sup>c</sup>	4.47 ± 7.47	28.1 ± 4.8	28.9 ± 9.8	0.709 ± 0.072	4.53 ± 0.23	0.192 ± 0.071	71.5

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>	0.429	0.130	unity	-	0.0237	0.0072
Adipose <sup>d</sup>	0.262	0.048	0.624	0.285	0.0207	0.0034
Muscle <sup>d</sup>	0.161	0.035	0.366	0.104	0.0699	0.0147
Skin <sup>d</sup>	0.382	0.143	0.922	0.580	0.0707	0.0252
Brain	0.138	0.018	0.324	0.126	0.00351	0.00037
Heart	0.261	0.030	0.598	0.170	0.00138	0.00030
Kidneys	0.434	0.107	1.00	0.38	0.00650	0.00153
Liver	1.53	0.35	3.61	1.61	0.0974	0.0219
Lung	0.440	0.201	1.09	0.67	0.00365	0.00158
Spleen	0.211	0.095	0.476	0.259	0.000680	0.000347
Adrenals	3.24	0.78	7.64	3.05	0.000776	0.000068
Thymus	0.267	0.114	0.665	0.463	0.000634	0.000211
Thyroid	1.43	0.55	3.62	2.37	0.000409	0.000093
Urinary Bladder	1.22	0.42	3.07	1.77	0.000553	0.000084
Pancreas	0.139	0.034	0.336	0.157	0.00160	0.00038
Ovaries	0.360	0.078	0.882	0.441	0.00144	0.00014
Cecum	0.861	0.201	2.03	0.97	0.00426	0.00118
Large Intestine	0.407	0.089	0.959	0.446	0.00365	0.00074
Small Intestine	0.305	0.133	0.754	0.548	0.00909	0.00315
Stomach	0.614	0.190	1.41	0.58	0.00470	0.00115

Disposition Summary—Dose Recovered (%)

Sample	Percent Recovered Mean	Percent Recovered SD
<b>Urine + Cage Rinse</b>	<b>32.6</b>	<b>5.2</b>
Urine	4.47	7.47
Cage Rinse	28.1	4.8
Feces	28.9	9.8
Volatile Organics	0.709	0.072
CO <sub>2</sub>	4.53	0.23
GI Content	0.192	0.071
Carcass	0.394	0.509
Tissues	0.911	0.473
<b>Total Recovered</b>	<b>72.4</b>	<b>9.0</b>

<sup>a</sup>All values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 40 mg DTBBA/kg. The actual dose delivered was 39.6 ± 0.2 mg/kg (90.3 ± 0.5 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