

**Disposition of Radioactivity 24 Hours Following Oral Gavage Administration  
of 40 mg/kg [<sup>14</sup>C]DTBBA to Male B6C3F<sub>1</sub>/N Mice (Group B)<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	0.00117 ± 0.00065	3.49 ± 7.64	–	0.0293 ± 0.0141	0.314 ± 0.138	–	3.83
8	1.21 ± 1.65	11.4 ± 11.4	–	0.0728 ± 0.0377	0.620 ± 0.219	–	13.3
12	1.86 ± 1.87	14.2 ± 11.6	–	0.162 ± 0.075	1.15 ± 0.17	–	17.3
24 <sup>c</sup>	2.00 ± 1.91	28.8 ± 10.5	44.7 ± 20.1	2.04 ± 2.77	1.53 ± 0.28	0.792 ± 0.290	80.2

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>	0.298	0.126	unity	–	0.0221	0.0099
Adipose <sup>d</sup>	20.7	45.9	0.588	0.230	0.0199	0.0141
Muscle <sup>d</sup>	0.130	0.032	0.480	0.171	0.0755	0.0207
Skin <sup>d</sup>	0.221	0.092	0.759	0.154	0.0555	0.0258
Brain	0.105	0.051	0.342	0.052	0.00292	0.00153
Heart	0.148	0.041	0.539	0.172	0.00108	0.00028
Kidneys	0.367	0.051	1.42	0.58	0.00806	0.00115
Liver	0.777	0.123	3.04	1.28	0.0715	0.0087
Lung	0.172	0.086	0.568	0.070	0.00194	0.00092
Spleen	0.167	0.093	0.566	0.170	0.00064	0.00039
Adrenals	1.73	1.39	5.47	4.02	0.00071	0.00045
Thymus	0.227	0.187	0.688	0.324	0.00053	0.00037
Thyroid	0.600	0.466	2.13	1.46	0.00049	0.00013
Urinary Bladder	0.918	1.224	4.80	8.27	0.00125	0.00159
Pancreas	0.177	0.043	0.655	0.227	0.00228	0.00079
Testes	0.113	0.059	0.379	0.116	0.00124	0.00069
Cecum	0.750	0.217	3.11	1.98	0.00291	0.00088
Large Intestine	0.360	0.077	1.49	0.98	0.00723	0.00722
Small Intestine	0.347	0.052	1.44	0.85	0.00684	0.00326
Stomach	0.506	0.137	2.19	1.60	0.00460	0.00139

Disposition Summary–Dose Recovered (%)

Sample	Percent Recovered Mean	Percent Recovered SD
<b>Urine + Cage Rinse</b>	<b>30.7</b>	<b>9.8</b>
Urine	2.00	1.91
Cage Rinse	28.8	10.5
Feces	44.7	20.1
Volatile Organics	2.04	2.77
CO <sub>2</sub>	1.53	0.28
GI Content	7.92	0.290
Carcass	5.22	1.168
Tissues	0.810	1.219
<b>Total Recovered</b>	<b>81.0</b>	<b>21.4</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 29.3 ± 1.8 mg/kg (64.8 ± 3.9 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