

### Disposition of Radioactivity 24 Hours Following Oral Gavage Administration of 40 mg/kg [<sup>14</sup>C]DTBBA to Female Harlan Sprague Dawley Rats (Group O)<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	18.3 ± 4.2	13.5 ± 5.0	–	0.0242 ± 0.0118	0.187 ± 0.085	–	32.0
8	30.0 ± 5.6	17.4 ± 5.8	–	0.0412 ± 0.0132	0.332 ± 0.081	–	47.8
12	34.3 ± 5.6	19.0 ± 6.0	–	0.0624 ± 0.0104	0.460 ± 0.069	–	53.8
24 <sup>c</sup>	37.7 ± 6.0	20.0 ± 6.0	28.1 ± 17.8	0.0843 ± 0.0082	0.633 ± 0.061	3.07 ± 1.17	89.7

#### 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>	0.318	0.120	unity	–	0.0277	0.0103
Adipose <sup>d</sup>	0.259	0.174	1.04	1.17	0.0212	0.0140
Muscle <sup>d</sup>	0.0535	0.0478	0.152	0.104	0.0253	0.0226
Skin <sup>d</sup>	0.862	0.435	3.53	3.58	0.192	0.096
Brain	0.0146	0.0134	0.0398	0.0378	0.00017	0.00016
Heart	0.116	0.029	0.391	0.116	0.00053	0.00014
Kidneys	1.42	0.10	5.10	2.18	0.0129	0.0013
Liver	1.06	0.15	3.66	1.19	0.0572	0.0069
Lung	0.379	0.057	1.32	0.48	0.00281	0.00024
Spleen	0.128	0.033	0.429	0.099	0.00044	0.00010
Adrenals	0.471	0.318	1.49	0.67	0.00017	0.00013
Thymus	0.0451	0.0321	0.129	0.067	0.00011	0.00007
Thyroid	0.181	0.404	0.451	1.009	0.00000	0.00001
Urinary Bladder	0.615	0.578	2.95	4.07	0.00015	0.00012
Pancreas	0.288	0.079	1.05	0.62	0.00175	0.00104
Ovaries	0.392	0.131	1.48	1.06	0.00213	0.00049
Cecum	4.96	2.92	17.1	10.3	0.0147	0.0091
Large Intestine	3.60	2.14	14.7	12.7	0.0234	0.0196
Small Intestine	3.83	0.93	13.8	6.6	0.0729	0.0189
Stomach	3.88	5.02	11.3	10.1	0.0241	0.0283

#### Disposition Summary–Dose Recovered (%)

Sample	Percent Recovered Mean	Percent Recovered SD
<b>Urine + Cage Rinse</b>	<b>57.6</b>	<b>1.5</b>
Urine	37.7	6.0
Cage Rinse	20.0	6.0
Feces	28.1	17.8
Volatile Organics	0.0843	0.0082
CO <sub>2</sub>	0.633	0.061
GI Content	3.07	1.17
Carcass	0.237	0.155
Tissues	0.717	0.238
<b>Total Recovered</b>	<b>90.5</b>	<b>18.6</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 39.1 ± 0.7 mg/kg (44.9 ± 0.8 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 7.4%, muscle 40.4%, and skin 19% (International Life Sciences Institute, 1994).

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