

**Disposition of Radioactivity 24 Hours Following Oral Gavage Administration
of 400 mg/kg [¹⁴C]DTBBA to Male B6C3F₁/N Mice (Group L)^a**

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE ^b	Cage Rinse CPDE	Feces CPDE	Volatile Organics CPDE	CO ₂ CPDE	GI Content	Total CPDE
4	1.25 ± 1.77	35.9 ± 23.3	–	0.180 ± 0.082	1.56 ± 0.63	–	38.1
8	2.12 ± 2.82	46.9 ± 16.1	–	0.518 ± 0.370	2.63 ± 0.64	–	50.9
12	1.22 ± 1.84	51.3 ± 14.8	–	0.682 ± 0.357	3.87 ± 0.74	–	57.0
24 ^c	2.00 ± 1.73	58.9 ± 13.7	15.9 ± 6.0	0.823 ± 0.335	4.97 ± 0.81	0.246 ± 0.165	84.7

Disposition in Tissues

Tissue	nmol-eq/g Mean	nmol-eq/g SD	TBR ^e Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Blood ^d	2.38	0.64	unity	–	0.0156	0.0044
Adipose ^d	2.27	0.63	0.970	0.211	0.0212	0.0060
Muscle ^d	2.38	1.06	0.975	0.209	0.122	0.055
Skin ^d	3.85	1.08	1.64	0.32	0.0852	0.0262
Brain	0.931	0.282	0.400	0.120	0.00229	0.00068
Heart	1.59	0.37	0.685	0.116	0.000958	0.000195
Kidneys	4.80	1.05	2.09	0.46	0.00951	0.00211
Liver	12.3	0.8	5.44	1.33	0.0963	0.0061
Lung	2.69	0.64	1.14	0.11	0.00242	0.00052
Spleen	1.69	0.78	0.711	0.245	0.000489	0.000212
Adrenals	56.2	57.2	22.4	22.2	0.000777	0.000488
Thymus	2.74	0.87	1.14	0.10	0.000457	0.000152
Thyroid	12.5	7.5	4.99	2.25	0.000422	0.000127
Urinary Bladder	12.4	9.2	4.70	3.13	0.000830	0.000545
Pancreas	23.9	48.9	8.11	15.95	0.0262	0.0534
Testes	2.37	1.56	0.934	0.487	0.00225	0.00147
Cecum	27.1	29.8	10.7	9.1	0.0124	0.0153
Large Intestine	36.3	59.9	13.0	19.1	0.0280	0.0412
Small Intestine	16.7	10.7	8.12	6.69	0.0500	0.0340
Stomach	15.1	9.9	6.88	5.56	0.0106	0.0048

Disposition Summary–Dose Recovered (%)

Sample	Percent Recovered Mean	Percent Recovered SD
Urine + Cage Rinse	60.9	14.5
Urine	2.00	1.73
Cage Rinse	58.9	13.7
Feces	15.9	6.0
Volatile Organics	0.823	0.335
CO ₂	4.97	0.81
GI Content	0.246	0.165
Carcass	0.100	0.076
Tissues	0.588	0.136
Total Recovered	85.3	15.7

^aAll values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 400 mg DTBBA/kg. The actual dose delivered was 333 ± 12 mg/kg (77.3 ± 2.7 µCi).

^bCPDE = Cumulative percent dose excreted

^c24 hour (h) urine collection included urine present in the urinary bladder at study termination.

^dTissue 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).

^eTBR = tissue to blood ratio