

**Disposition of Radioactivity 72 Hours Following Dermal Application
of 4 mg/kg [¹⁴C]DTBBA to Male B6C3F1/N Mice (Group N-A)^a**

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE ^b	Cage Rinse CPDE	Feces CPDE	GI Content	Total CPDE
4	0.0119 ± 0.0149	0.0923 ± 0.115	–	–	0.104
8	0.0913 ± 0.148	0.231 ± 0.195	–	–	0.322
12	0.245 ± 0.318	0.379 ± 0.355	–	–	0.624
24	0.790 ± 0.846	0.611 ± 0.369	1.97 ± 1.21	–	3.37
48	1.05 ± 1.27	0.872 ± 0.346	3.78 ± 1.75	–	5.70
72 ^c	1.52 ± 1.34	1.94 ± 0.62	5.39 ± 2.28	0.225 ± 0.076	9.61

Disposition in Tissues

Tissue	nmole-eq/g Mean	nmole-eq/g SD	TBR ^e Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Blood ^d	0.0138	0.0036	unity	–	0.00746	0.00206
Adipose ^d	0.0243	0.0048	1.89	0.71	0.0186	0.0032
Muscle ^d	0.0206	0.0072	1.52	0.48	0.0868	0.0306
Skin ^d	0.436	0.619	32.2	44.3	0.793	1.128
Brain	0.00483	0.00146	0.386	0.181	0.00081	0.00024
Heart	0.0115	0.0034	0.858	0.276	0.00047	0.00014
Kidneys	0.0376	0.0195	2.76	1.27	0.00558	0.00304
Liver	0.0353	0.0169	2.53	0.75	0.0182	0.0088
Lung	0.0125	0.0027	0.922	0.139	0.00067	0.00018
Spleen	0.0118	0.0058	0.867	0.388	0.00029	0.00015
Adrenals	0.291	0.293	20.8	18.4	0.00025	0.00005
Thymus	0.0190	0.0106	1.48	0.89	0.00023	0.00011
Thyroid	0.0842	0.0177	6.31	1.59	0.00021	0.00003
Urinary Bladder	0.131	0.100	8.89	5.21	0.00069	0.00061
Pancreas	0.0265	0.0113	2.03	1.09	0.00248	0.00096
Testes	0.00925	0.00129	0.705	0.206	0.00059	0.00008
Cecum	0.134	0.075	9.70	4.65	0.00323	0.00107
Large Intestine	0.0630	0.0186	4.60	0.95	0.00398	0.00133
Small Intestine	0.0777	0.0369	5.73	2.45	0.0164	0.0103
Stomach	0.0455	0.0200	3.41	1.62	0.00236	0.00105

Disposition Summary–Dose Recovered (%)

Sample	Percent Recovered Mean	Percent Recovered SD
Total Unabsorbed Dose	72.3	3.8
Applicator	32.2	16.9
Tape/Glue	4.44	5.29
Dose Site Swipes	35.7	14.1
Total Dose Site Skin	2.55	1.35
Total Absorbed Dose	10.6	2.9
Urine + Cage Rinse	3.73	1.49
Urine	1.52	1.34
Cage Rinse	1.94	0.62
Feces	5.39	2.28
GI Content	0.225	0.076
Carcass	0.018	0.040
Tissues	0.981	1.131
Total Recovered	85.4	5.0

^aAll values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 4 mg DTBBA/kg. The actual dose delivered was 4.44 ± 0.13 mg/kg (161 ± 5 µCi).

^bCPDE = Cumulative percent dose excreted

^c72 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