

**Disposition of Radioactivity 72 Hours Following Dermal Application
of 0.4 mg/kg [¹⁴C]DTBBA to Male Harlan Sprague-Dawley Rats (Group E)^a**

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE ^b	Cage Rinse CPDE	Feces CPDE	GI Content	Total CPDE
4	0.0776 ± 0.0358	0.0919 ± 0.0459	-	-	0.169
8	0.382 ± 0.250	0.226 ± 0.102	-	-	0.608
12	0.939 ± 0.454	0.518 ± 0.200	-	-	1.46
24	2.92 ± 1.20	0.821 ± 0.233	6.10 ± 2.82	-	9.84
48	5.65 ± 2.24	1.15 ± 0.383	15.0 ± 7.45	-	21.8
72 ^c	7.14 ± 2.85	1.85 ± 0.620	21.2 ± 9.20	2.75 ± 1.61	33.3

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	0.00797	0.00424	unity	-	0.0758	0.0414
Adipose ^d	0.00927	0.00245	1.36	0.542	0.0837	0.0278
Muscle ^d	0.00433	0.00101	0.602	0.155	0.225	0.0621
Skin ^d	0.238	0.211	36.1	41.6	5.64	4.76
Brain	0.00283	0.00027	0.415	0.165	0.00237	0.00026
Heart	0.00895	0.00070	1.36	0.632	0.00415	0.00021
Kidneys	0.00777	0.00188	1.10	0.402	0.00679	0.00211
Liver	0.00696	0.00219	0.996	0.457	0.0351	0.0123
Lung	0.00956	0.00060	1.45	0.657	0.00615	0.00069
Spleen	0.00309	0.00044	0.445	0.145	0.00107	0.00016
Adrenals	0.0237	0.00691	3.23	0.725	0.00039	0.00008
Thymus	0.00438	0.00053	0.637	0.240	0.00104	0.00011
Thyroid	0.00720	0.00229	0.971	0.196	0.00026	0.00009
Urinary Bladder	0.0612	0.0290	8.17	2.60	0.00199	0.00063
Pancreas	0.00368	0.00067	0.532	0.206	0.00195	0.00053
Testes	0.00737	0.00075	1.07	0.373	0.01291	0.00108
Cecum	0.109	0.106	17.2	21.0	0.0318	0.0315
Large Intestine	0.0437	0.0446	6.89	8.79	0.0301	0.0324
Small Intestine	0.0158	0.00321	2.30	0.831	0.0285	0.00990
Stomach	0.0191	0.010	2.59	1.68	0.0129	0.00706

Disposition Summary—Dose Recovered (%)

Sample	Percent Recovered Mean	Percent Recovered SD
Total Unabsorbed Dose	30.9	23.9
Applicator	9.54	5.10
Tape/Glue	5.27	3.46
Dose Site Swipes	16.1	22.5
Total Dose Site Skin	16.2	13.0
Total Absorbed Dose	39.5	17.7
Urine + Cage Rinse	8.99	3.45
Urine	7.14	2.85
Cage Rinse	1.86	0.62
Feces	21.2	9.2
GI Content	2.75	1.61
Carcass	0.00	0.00
Tissues	6.21	4.81
Total Recovered	86.6	21.8

^aAll values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 4 mg DTBBA/kg. The actual dose delivered was 3.91 ± 0.38 mg/kg (43.7 ± 2.6 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 7.4%, muscle 40.4%, and skin 19% (International Life Sciences Institute, 1994).

^eTBR = tissue to blood ratio