

**Distribution of Radioactivity 24 Hours Following Dermal Administration of 100 mg/kg
[¹⁴C]Butyl Paraben to Male Sprague Dawley Rats – Group 5**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	5-02	5-03	5-04	5-05	Mean	SD
Urine	0 to 4	0.32	0	0.09	0.31	0.18	0.16
Urine	4 to 8	0.37	0.27	0.58	0.35	0.39	0.13
Urine	8 to 12	0.33	0.44	0.62	0.28	0.41	0.15
Urine	12 to 24 ^a	0.75	0.81	0.92	0.65	0.78	0.11
Cage Rinse	0 to 24	0.74	0.16	0.26	0.39	0.38	0.25
-	Subtotal	2.51	1.68	2.47	1.98	2.16	0.40
Feces	0 to 24	0.04	0.03	0.04	0.02	0.03	0.00
Total	-	2.55	1.71	2.51	2.00	2.19	0.4

Distribution in Tissues (24 h)

Tissue	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal ^b	645	666	15.7	12.9	0.046	0.046
Bladder	2180	1580	51.8	27.8	0.000	0.000
Muscle (hind leg) ^b	210	32.2	5.57	0.88	0.087	0.012
Skin (abdominal) ^b	419	335	11.3	9.4	0.081	0.064
Blood ^b	38.7	9.8	Unity	-	0.002	0.000
Plasma ^b	38.8	14.8	1.01	0.305	0.001	0.000
Spleen	500	243	12.8	4.11	0.001	0.000
Liver	934	151	25.2	6.35	0.037	0.003
Kidney	1740	657	44.0	6.74	0.014	0.005
Brain	62.5	21.6	1.6	0.358	0.000	0.000
Heart	651	89.5	17.5	3.71	0.002	0.000
Lung	235	65.6	6.2	1.35	0.000	0.000
Stomach	0.0	0.0	0.0	0.0	0.000	0.000
Cecum	0.0	0.0	0.0	0.0	0.000	0.000
Large Intestine	19.8	39.7	0.448	0.895	0.000	0.000
Small Intestine	596	784	13.1	15.9	0.010	0.013
Thyroid	506	84.5	13.5	2.34	0.000	0.000
Testes	77.4	30.4	1.89	0.409	0.000	0.000
Pancreas	505	593	11.6	11.5	0.002	0.002
Total	-	-	-	-	0.31	0.095

Disposition Summary – Percent of Dose Recovered

Unabsorbed Dose	5-02	5-03	5-04	5-05	Mean	SD
Dose Site Skin Wash	13.4	3.62	2.97	2.91	5.73	5.13
Gauze Wipes	22.2	17.6	18.7	28.9	21.9	5.09
Appliance	32.9	52.7	48.0	35.7	42.3	9.53
Total	68.5	74.0	69.7	67.5	69.9	2.84
Dose Site Skin	19.6	15.0	19.8	22.1	19.1	2.97
Absorbed Dose	-	-	-	-	-	-
Urine ^c	2.51	1.68	2.47	1.98	2.16	0.40
Feces	0.04	0.03	0.04	0.02	0.03	0.00
Tissues	0.415	0.201	0.267	0.358	0.310	0.095
GI Tract Contents	0.03	0.012	0.03	0.022	0.023	0.008
Total	3.00	1.92	2.81	2.38	2.53	0.48
Overall Recovery	91.1	90.9	92.3	92.0	91.6	0.7

^a Includes urine present in bladder at time of sacrifice.

^b Tissue weights for dispersed tissues were calculated based on body weight as follows: adipose 7.0%, muscle 40.4%, skin 19%, blood 7.4%, and plasma 4.3%.

^c Includes Cage Rinse.