

**Distribution of Radioactivity 72 Hours Following Dermal Administration of 100 mg/kg
[¹⁴C]Butyl Paraben to Male Sprague Dawley Rats – Group 4a**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	4a-2	4a-3	4a-4	4a-5	Mean	SD
Urine	0 to 4	0.36	0.18	0.40	0.44	0.34	0.11
Urine	4 to 8	0.50	0.23	0.19	0.69	0.40	0.23
Urine	8 to 12	0.34	0.53	0.30	0.42	0.39	0.10
Urine	12 to 24	0.99	0.91	0.86	0.86	0.90	0.06
Urine	24 to 48	1.62	2.16	1.34	2.34	1.87	0.46
Urine	48 to 72 ^a	1.86	2.23	2.78	1.64	2.13	0.49
Cage Rinse	0 to 72	0.58	1.78	1.54	0.91	1.20	0.55
-	Subtotal	6.25	8.02	7.41	7.3	7.25	0.74
Feces	0 to 24	0.05	0.05	0.03	0.05	0.04	0.01
Feces	24 to 48	0.05	0.07	0.05	0.06	0.05	0.00
Feces	48 to 72	0.07	0.06	0.06	0.05	0.06	0.00
-	Subtotal	0.17	0.18	0.14	0.16	0.16	0.01
Total	-	6.42	8.2	7.55	7.46	7.41	0.73

Distribution in Tissues (72 h)

Tissue	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal ^b	720	317	6.67	3.55	0.053	0.023
Muscle (hind leg) ^b	584	219	5.15	1.33	0.254	0.086
Skin (abdominal) ^b	548	279	5.28	3.38	0.114	0.059
Blood ^b	112	19	Unity	-	0.008	0.001
Plasma ^b	95.3	39.3	0.825	0.239	0.004	0.001
Spleen	1210	97.8	11	1.46	0.002	0.000
Liver	2680	280	24.3	3.19	0.097	0.011
Kidney	4610	621	41.8	6.68	0.037	0.004
Brain	109	25.9	0.962	0.156	0.000	0.000
Heart	1750	338	15.6	1.11	0.007	0.001
Lung	759	128	6.94	1.67	0.003	0.000
Testes	143	16.5	1.31	0.276	0.001	0.000
Total	-	-	-	-	0.584	0.06

Disposition Summary – Percent of Dose Recovered

Unabsorbed Dose	4a-2	4a-3	4a-4	4a-5	Mean	SD
Dose Site Skin Wash	6.33	4.85	3.7	2.12	4.25	1.78
Gauze Wipes	15.1	13.6	10.0	6.9	11.4	3.7
Appliance	2.2	20.6	40.2	29.7	23.2	16.1
Total	23.6	39.0	53.9	38.7	38.8	12.4
Dose Site Skin	62.4	43.9	28.2	39.2	43.4	14.3
Absorbed Dose	-	-	-	-	-	-
Urine ^c	6.25	8.02	7.41	7.3	7.25	0.74
Feces	0.17	0.18	0.14	0.16	0.16	0.01
Tissues	0.583	0.519	0.57	0.665	0.584	0.06
Total	7.0	8.7	8.1	8.1	8.0	0.7
Overall Recovery	93.0	91.7	90.2	86.0	90.2	3.0

^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. \$