

**Distribution of Radioactivity 24 Hours Following Dermal Administration of 15 mg/kg
[¹⁴C]2-Methoxy-4-Nitroaniline to Male Harlan Sprague Dawley Rats – Group 8**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	8-01	8-02	8-03	8-04	Mean	SD
Urine	0 to 4	0.05	0.21	0.34	0.08	0.169	0.131
Urine	4 to 8	0.96	0.88	0.04	1.00	0.721	0.457
Urine	8 to 12	1.08	0.8	1.19	0.64	0.928	0.250
Urine	12 to 24 ^a	1.95	2.58	2.02	1.58	2.03	0.412
Cage Rinse	0 to 24	1.06	0.95	1.04	1.47	1.13	0.23
-	Subtotal	5.10	5.42	4.63	4.77	4.98	0.35
Feces	0 to 24	0.35	0.31	0.42	0.37	0.36	0.05
-	Subtotal	0.35	0.31	0.42	0.37	0.36	0.05
Total	-	5.45	5.72	5.04	5.14	5.34	0.311

Distribution in Tissues (24 h)

Tissue	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Recovery Mean	Recovery SD
Adipose Perirenal ^b	34.8	5.79	0.814	0.193	0.015	0.003
Muscle (hind leg) ^b	8.55	2.75	0.194	0.039	0.021	0.007
Skin (abdominal) ^b	26.8	13.3	0.647	0.403	0.031	0.016
Blood ^b	43.5	6.26	Unity	Unity	0.02	0.002
Plasma ^b	24.4	7.68	0.556	0.151	0.006	0.002
Spleen	19.7	1.73	0.464	0.103	0.000	0.000
Liver	125	22.6	2.91	0.485	0.033	0.005
Kidney	154	43.9	3.64	1.33	0.008	0.002
Brain	7.98	3.42	0.178	0.053	0.001	0.001
Heart	22.6	4.99	0.517	0.048	0.001	0.001
Lung	30.5	4.37	0.703	0.014	0.001	0.000
Pancreas	26.3	6.93	0.605	0.114	0.001	0.000
Total	-	-	-	-	0.137	0.017

Disposition Summary – Percent of Dose Recovered

UNABSORBED	8-01	8-02	8-03	8-04	Mean	SD
Appliance	0.68	7.32	0.74	0.75	2.37	3.30
Gauze	23.4	17.1	17.0	17.7	18.8	3.1
Dose Skin Wash	39.2	45.6	56.4	56.4	49.4	8.5
Total Unabsorbed	63.2	70.0	74.1	74.9	70.6	5.3
Total in Dose Site	4.81	3.75	2.35	2.32	3.3	1.2
ABSORBED	-	-	-	-	-	-
Urine ^c	5.10	5.42	4.63	4.77	4.98	0.35
Feces	0.35	0.31	0.42	0.37	0.36	0.05
Tissues	0.137	0.146	0.152	0.113	0.137	0.017
Total Absorbed	5.59	5.88	5.20	5.25	5.5	0.3
Total Recovery	73.6	79.6	81.7	82.5	79.4	4.0

^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%. ILSI (1994). *Physiological Parameter Values for PBPK Models*. International Life Sciences Institute.

^c Includes Cage Rinse.