

**Distribution of Radioactivity 72 Hours Following Oral Gavage of 2 mg/kg
[¹⁴C]2-Methoxy-4-nitroaniline to Male Harlan Sprague Dawley Rats – Group 1**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	M-01	M-02	M-03	M-04	Mean	SD
Urine	0 to 4	0.00	5.20	32.5	0.00	9.43	15.6
Urine	4 to 8	15.5	26.2	14.8	38.2	23.7	11.0
Urine	8 to 12	11.7	3.67	10.5	18.5	11.1	6.07
Urine	12 to 24	16.1	8.61	10.5	13.0	12.1	3.24
Urine	24 to 48	20.9	9.62	9.09	7.16	11.7	6.23
Urine	48 to 72 ^a	1.37	4.03	0.32	1.11	1.71	1.61
Cage Rinse	0 to 72	11.5	10.1	1.18	2.50	6.32	5.23
-	Subtotal	77.1	67.4	78.9	80.5	76.0	5.9
Feces	0 to 24	11.2	13.6	9.40	8.45	10.7	2.27
Feces	24 to 48	1.40	1.91	0.85	1.28	1.36	0.43
Feces	48 to 72	0.40	0.32	0.60	0.18	0.37	0.17
-	Subtotal	13.0	15.8	10.9	9.91	12.4	2.61
Total	-	90.1	83.3	89.7	90.4	88.4	3.4

Distribution in Tissues (72 hour)

Tissue	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal ^b	2.08	0.34	0.22	0.03	0.008	0.001
Muscle (hind leg) ^b	1.22	0.04	0.13	0.02	0.027	0.001
Skin (abdominal) ^b	7.53	2.11	0.82	0.27	0.077	0.023
Blood ^b	9.42	0.93	Unity	-	0.037	0.003
Plasma ^b	3.99	0.50	0.42	0.03	0.009	0.001
Spleen	3.55	1.18	0.38	0.11	0.000	0.001
Liver	37.0	5.17	3.92	0.29	0.092	0.008
Kidney	7.58	0.76	0.81	0.10	0.003	0.000
Brain	3.05	2.58	0.32	0.26	0.002	0.001
Heart	2.23	0.42	0.24	0.05	0.000	0.001
Lung	5.45	0.15	0.58	0.07	0.002	0.001
Pancreas	1.92	0.23	0.21	0.03	0.001	0.001
Total	-	-	-	-	0.257	0.017

Disposition Summary – Percent of Dose Recovered

Sample	M-01	M-02	M-03	M-04	Mean	SD
Urine ^c	77.1	67.4	78.9	80.5	76.0	5.9
Feces	13.0	15.8	10.9	9.91	12.4	2.61
Tissues	0.236	0.252	0.266	0.274	0.257	0.017
Total	90.3	83.5	90.0	90.7	88.6	3.5

^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.