

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

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	4-01	4-02	4-03	4-04	Mean	SD
Urine	0 to 4	0.00	16.8	21.62	16.0	13.6	9.41
Urine	4 to 8	36.8	18.4	2.88	23.3	20.3	14.00
Urine	8 to 12	21.3	6.58	32.4	4.53	16.2	13.11
Urine	12 to 24 ^a	12.3	19.2	14.1	12.5	14.5	3.24
Cage Rinse	0 to 24	11.5	20.1	11.45	22.5	16.4	5.72
-	Subtotal	81.9	81.1	82.5	78.8	81.1	1.6
Feces	0 to 24	7.54	7.17	7.51	9.50	7.93	1.06
-	Subtotal	7.54	7.17	7.51	9.50	7.93	1.06
Total	-	89.4	88.2	89.9	88.3	89.0	0.86

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	25.0	7.14	0.159	0.065	0.012	0.003
Muscle (hind leg) ^b	15.1	2.03	0.094	0.017	0.041	0.005
Skin (abdominal) ^b	76.8	28.8	0.456	0.111	0.098	0.037
Blood ^b	164	25.5	Unity	-	0.082	0.013
Plasma ^b	75.5	3.10	0.467	0.054	0.022	0.001
Spleen	62.2	28.1	0.393	0.212	0.001	0.001
Liver	850	87.5	5.33	1.32	0.264	0.016
Kidney	199	10.4	1.23	0.124	0.010	0.001
Brain	9.36	1.41	0.058	0.008	0.000	0.001
Heart	44.2	3.20	0.272	0.033	0.001	0.000
Lung	91.1	7.77	0.560	0.040	0.003	0.001
Pancreas	38.6	6.51	0.240	0.058	0.002	0.001
Total	-	-	-	-	0.54	0.04

Disposition Summary – Percent of Dose Recovered

Sample	4-01	4-02	4-03	4-04	Mean	SD
Urine ^c	81.9	81.1	82.5	78.8	81.1	1.6
Feces	7.54	7.17	7.51	9.50	7.93	1.06
Tissues	0.546	0.535	0.487	0.577	0.54	0.04
Total	90.0	88.7	90.4	88.8	89.5	0.8

^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.