

**Distribution of Radioactivity 72 Hours Following Oral Gavage of 150 mg/kg
[¹⁴C]2-Methoxy-4-Nitroaniline to Male Harlan Sprague Dawley Rats – Group 3**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	3-01	3-02	3-03	3-04	Mean	SD
Urine	0 to 4	3.35	6.52	4.74	0.87	3.87	2.38
Urine	4 to 8	13.1	6.53	10.1	10.9	10.2	2.73
Urine	8 to 12	17.7	5.33	12.2	5.71	10.2	5.89
Urine	12 to 24	29.2	37.1	31.8	27.3	31.4	4.25
Urine	24 to 48	8.85	13.2	15.1	20.2	14.3	4.70
Urine	48 to 72 ^a	1.32	3.87	3.05	7.45	3.92	2.58
Cage Rinse	0 to 72	1.84	7.21	2.76	7.23	4.76	2.87
-	Subtotal	75.4	79.8	79.8	79.7	78.6	2.2
Feces	0 to 24	4.14	3.03	3.39	2.93	3.37	0.55
Feces	24 to 48	8.45	3.69	4.96	5.75	5.71	2.01
Feces	48 to 72	0.69	0.35	0.68	0.48	0.55	0.17
-	Subtotal	13.3	7.07	9.03	9.16	9.64	2.62
Total	-	88.6	86.8	88.8	88.8	88.3	0.97

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	236	39.1	0.145	0.017	0.010	0.002
Muscle (hind leg) ^b	108	25	0.068	0.015	0.027	0.006
Skin (abdominal) ^b	677	229	0.41	0.143	0.081	0.027
Blood ^b	1650	215	Unity	-	0.077	0.01
Plasma ^b	225	29.1	0.138	0.005	0.006	0.001
Spleen	515	73.8	0.32	0.05	0.001	0.000
Liver	3570	379	2.17	0.171	0.085	0.011
Kidney	1130	175	0.688	0.092	0.006	0.001
Brain	219	81	0.14	0.065	0.001	0.000
Heart	378	196	0.233	0.136	0.001	0.001
Lung	652	113	0.397	0.048	0.002	0.000
Pancreas	193	7.46	0.12	0.014	0.000	0.000
Total	-	-	-	-	0.298	0.048

Disposition Summary – Percent of Dose Recovered

Sample	3-01	3-02	3-03	3-04	Mean	SD
Urine ^c	75.4	79.8	79.8	79.7	78.6	2.2
Feces	13.3	7.07	9.03	9.16	9.64	2.62
Tissues	0.339	0.228	0.313	0.310	0.298	0.048
Total	89.0	87.1	89.1	89.1	88.6	1.0

^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.