

**Distribution of Radioactivity 72 Hours Following Oral Gavage of 15 mg/kg
[¹⁴C] 2-Methoxy-4-Nitroaniline to Male Harlan Sprague Dawley Rats – Group 2**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	2-01	2-02	2-03	2-04	Mean	SD
Urine	0 to 4	5.73	2.69	1.23	21.46	7.79	9.33
Urine	4 to 8	17.1	24.4	17.8	19.5	19.7	3.29
Urine	8 to 12	8.20	17.4	13.8	15.1	13.6	3.91
Urine	12 to 24	24.7	19.5	19.8	13.3	19.3	4.67
Urine	24 to 48	8.24	19.1	5.65	4.51	9.38	6.67
Urine	48 to 72 ^a	2.47	1.16	2.89	3.15	2.42	0.88
Cage Rinse	0 to 72	4.32	3.58	1.60	2.33	2.96	1.22
-	Subtotal	70.8	87.8	62.8	79.4	75.2	10.8
Feces	0 to 24	7.30	9.82	4.63	7.15	7.23	2.12
Feces	24 to 48	7.22	1.77	5.93	1.53	4.11	2.89
Feces	48 to 72	0.44	0.11	1.72	0.12	0.6	0.76
-	Subtotal	15.0	11.7	12.3	8.80	12.0	2.54
Total	-	85.7	99.5	75.1	88.2	87.1	10.0

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	22.7	6.89	0.195	0.058	0.010	0.003
Muscle (hind leg) ^b	10.9	1.48	0.095	0.017	0.028	0.005
Skin (abdominal) ^b	59.6	4.76	0.507	0.041	0.071	0.006
Blood ^b	119	16.1	Unity	-	0.055	0.008
Plasma ^b	24.6	3.8	0.21	0.042	0.007	0.001
Spleen	41.9	4.08	0.35	0.03	0.001	0.000
Liver	366	18.2	3.12	0.50	0.086	0.008
Kidney	93.7	9.08	0.805	0.108	0.005	0.001
Brain	11.4	2.59	0.098	0.01	0.001	0.001
Heart	22.2	2.7	0.19	0.028	0.001	0.001
Lung	56.5	10.1	0.488	0.105	0.002	0.001
Pancreas	17.2	2.9	0.148	0.019	0.001	0.001
Total	-	-	-	-	0.265	0.025

Disposition Summary – Percent of Dose Recovered

Sample	2-01	2-02	2-03	2-04	Mean	SD
Urine ^c	70.8	87.8	62.8	79.4	75.2	10.8
Feces	15.0	11.7	12.3	8.80	12.0	2.54
Tissues	0.253	0.288	0.284	0.235	0.265	0.025
Total	86.0	99.9	75.4	88.5	87.5	10.0

^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.