

**Distribution of Radioactivity 72 Hours Following Gavage Administration of 50 mg/kg
[¹⁴C]Hydroquinone to Male B6C3F1/N Mice – Group 6**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	6_01	6_02	6_03	6_04	Mean	SD
Urine	0 to 8	N.S.	N.S.	54.7	N.S.	13.7	27.4
Urine	8 to 24	76.3	54.1	14.5	75.1	55.0	28.9
Urine	24 to 48	1.75	7.45	1.97	0.82	3.00	3.01
Urine	48 to 72 ^a	0.20	1.06	0.43	0.13	0.46	0.42
-	Subtotal	78.3	62.6	71.6	76.0	72.1	6.9
Cage Rinse	0 to 8	N.S.	N.S.	13.3	N.S.	3.33	6.65
Cage Rinse	8 to 24	10.2	19.1	5.28	14.7	12.3	5.94
Cage Rinse	24 to 48	2.59	0.43	1.42	1.09	1.38	0.90
Cage Rinse	48 to 72	0.31	0.82	1.11	0.12	0.59	0.46
-	Subtotal	13.1	20.4	21.1	15.9	17.6	3.8
Urine + Cage Rinse	Subtotal	91.4	83.0	92.7	91.9	89.8	4.5
Feces	0 to 24	3.19	6.98	2.05	3.07	3.82	2.17
Feces	24 to 48	0.30	1.39	0.41	0.34	0.61	0.52
Feces	48 to 72	0.25	0.12	0.16	0.16	0.17	0.06
-	Subtotal	3.74	8.49	2.62	3.57	4.60	2.64
Total	-	95.1	91.5	95.3	95.5	94.4	1.91

Distribution in Tissues (72 h)

Tissues ^b	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal	791	723	5.25	5.19	0.116	0.104
Bladder	180	41	1.16	0.34	0.0005	0.0002
Muscle (hind leg)	84	12	0.54	0.09	0.0682	0.0092
Skin (abdominal)	187	79	1.21	0.59	0.0653	0.0274
Blood	157	11	1.00	-	0.0164	0.0019
Plasma	177	147	1.14	0.97	0.0014	0.0008
Spleen	199	39	1.26	0.19	0.0007	0.0001
Liver	1750	587	11.3	4.56	0.194	0.0547
Kidney	557	46	3.55	0.40	0.0186	0.0022
Brain	244	81	1.54	0.42	0.0101	0.0033
Heart	109	10	0.70	0.05	0.0012	0.0001
Lung	229	37	1.45	0.14	0.0032	0.0006
Stomach	BLOQ (349)	(364)	BLOQ (2.03)	(2.82)	BLOD	-
Cecum	BLOQ (11)	(14)	BLOQ (0.00)	(0.00)	BLOD	-
Large Intestine	BLOQ (69)	(67)	BLOQ (0.25)	(0.51)	BLOD	-
Small Intestine	135	100	0.63	0.74	0.0078	0.0055
Thyroid	652	298	4.19	2.06	0.0001	0.0001
Femur	99	11	0.63	0.08	0.0004	0.0001
Marrow	BLOQ (73)	(140)	BLOQ (0.48)	(0.91)	BLOD	-
Pancreas	342	42	2.18	0.32	0.0087	0.0012
Testes	60	12	0.38	0.05	0.0009	0.0001
Total	-	-	-	-	0.52	0.178

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Disposition Summary – Percent of Dose Recovered

Sample	6_01	6_02	6_03	6_04	Mean	SD
Urine ^{a, c}	91.4	83.0	92.7	91.9	89.8	4.5
Feces	3.74	8.49	2.62	3.57	4.60	2.64
Tissues	0.511	0.775	0.407	0.387	0.52	0.178
GI Tract Contents	BLOQ (<0.005)	0.01	BLOQ (<0.005)	0.01	0.01	0.01
Total	95.7	92.3	95.7	95.9	94.9	1.7

^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 38.4%, skin 16.5%, and blood 4.9%.

^c Includes cage rinse.

N.S. = No sample.

BLOQ = Below the limit of quantitation. Aliquot DPM were less than 3 times background DPM. Background DPM typically <20 DPM.

SD = standard deviation.

TBR = Tissue to blood ratio.