

**Distribution of Radioactivity 72 Hours Following Gavage Administration of 800 mg/kg
[¹⁴C] 2-Ethylhexyl-*p*-Methoxycinnamate to Male Harlan Sprague Dawley Rats – Group 1**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	1-01	1-02	1-03	1-04	Mean	SD
Urine	0 to 8	7.80	17.4	14.4	7.13	11.7	5.03
Urine	8 to 24	54.0	46.6	46.9	56.7	51.1	5.09
Urine	24 to 48	17.8	16.2	14.6	14.7	15.8	1.51
Urine	48 to 72 ^a	1.27	1.91	1.52	1.38	1.52	0.28
Cage Rinse	0 to 72	1.08	1.00	1.03	1.45	1.14	0.21
-	Subtotal	82.0	83.1	78.5	81.4	81.2	2.0
Feces	0 to 24	2.04	1.52	1.81	1.59	1.74	0.24
Feces	24 to 48	3.29	4.58	5.24	4.76	4.47	0.83
Feces	48 to 72	2.70	0.49	2.31	1.27	1.69	1.00
-	Subtotal	8.03	6.59	9.36	7.62	7.90	1.15
CO ₂	0 to 4	0.04	0.06	0.07	0.07	0.06	0.01
CO ₂	4 to 8	0.05	0.05	0.06	0.05	0.05	0.01
CO ₂	8 to 12	0.07	0.06	0.07	0.06	0.07	0.01
CO ₂	12 to 24	0.43	0.33	0.45	0.47	0.42	0.06
CO ₂	24 to 48	0.74	0.59	0.79	0.39	0.63	0.18
CO ₂	48 to 72	0.05	0.06	0.06	0.05	0.06	0.01
-	Subtotal	1.38	1.15	1.50	1.09	1.28	0.19
Exhaled VOC	0 to 4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Exhaled VOC	4 to 8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Exhaled VOC	8 to 12	0.01	<0.005	0.01	0.01	0.01	0.01
Exhaled VOC	12 to 24	0.01	0.02	0.04	0.04	0.03	0.02
Exhaled VOC	24 to 48	0.07	0.09	0.17	0.26	0.15	0.09
Exhaled VOC	48 to 72	0.02	0.03	0.05	0.04	0.04	0.01
-	Subtotal	0.11	0.14	0.27	0.35	0.22	0.11
Total	-	91.5	91.0	89.6	90.4	90.6	0.8

Distribution in Tissues (72 h)

Tissue ^b	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal	14600	7880	10.7	7.30	0.12	0.07
Bladder	12100	6790	8.78	6.19	<0.005	N.A.
Muscle (hind leg)	1150	278	0.94	0.31	0.05	0.01
Skin (abdominal)	4470	373	3.10	0.42	0.10	0.01
Blood	1460	221	1	-	0.01	0.00
Plasma	2220	346	1.52	0.09	0.01	0.00
Spleen	2300	115	1.60	0.20	<0.005	N.A.
Liver	8300	526	5.82	1.22	0.04	0.00
Kidney	4950	299	3.45	0.49	0.01	0.00
Brain	364	19	0.25	0.03	<0.005	N.A.
Heart	1540	86	1.08	0.20	<0.005	N.A.
Lung	1940	301	1.34	0.21	<0.005	N.A.
Stomach	5600	1320	4.01	1.52	<0.005	N.A.
Cecum	12000	5740	8.43	4.66	<0.005	N.A.
Large Intestine	5810	1290	4.13	1.46	<0.005	N.A.
Small Intestine	5730	1210	3.98	0.84	0.01	0.00
Thyroid	3570	2560	2.33	1.69	<0.005	N.A.
Testes	1040	434	0.76	0.44	<0.005	N.A.
Pancreas	4990	2530	3.59	2.21	<0.005	N.A.
Total	-	-	-	-	0.36	0.09

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Disposition Summary – Percent of Dose Recovered

Sample	1-01	1-02	1-03	1-04	Mean	SD
Urine ^{a,c}	82.0	83.1	78.5	81.4	81.2	2.0
Feces	8.03	6.59	9.36	7.62	7.90	1.15
CO ₂	1.38	1.15	1.50	1.09	1.28	0.19
Exhaled VOC	0.11	0.14	0.27	0.35	0.22	0.11
GI Tract Contents	0.03	0.03	0.03	0.02	0.03	0.01
Tissues	0.38	0.46	0.25	0.33	0.36	0.09
Total	91.9	91.5	89.9	90.8	91.0	0.9

^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%.

^c Includes cage rinse.

SD = standard deviation.

TBR = Tissue to blood ratio.

N.A. = Not applicable