

**Distribution of Radioactivity 72 Hours Following Dermal Application of 8 mg/kg
[¹⁴C] 2-Ethylhexyl-*p*-Methoxycinnamate in Ethanol Vehicle to Female Harlan Sprague Dawley Rats
Group 18**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	18-01	18-02	18-03	18-04	Mean	SD
Urine	0 to 8	1.37	0.90	1.55	1.77	1.40	0.37
Urine	8 to 24	8.05	9.41	10.50	8.10	9.02	1.17
Urine	24 to 48	11.5	11.7	12.6	9.39	11.3	1.4
Urine	48 to 72 ^a	6.40	9.23	10.20	6.32	8.04	1.98
Cage Rinse	72	1.72	2.27	3.99	9.14	4.28	3.38
-	Subtotal	29.0	33.5	38.8	34.7	34.0	4.0
Feces	0 to 24	0.16	0.15	0.32	0.34	0.24	0.10
Feces	24 to 48	0.42	0.45	0.74	0.78	0.60	0.19
Feces	48 to 72	0.40	0.64	0.69	2.50	1.06	0.97
-	Subtotal	0.98	1.24	1.75	3.62	1.90	1.19
CO ₂	0 to 4	0.07	0.06	0.10	0.06	0.07	0.02
CO ₂	4 to 8	0.23	0.34	0.28	0.21	0.27	0.06
CO ₂	8 to 12	0.40	0.23	1.10	0.86	0.65	0.40
CO ₂	12 to 24	1.04	0.77	0.96	0.78	0.89	0.13
CO ₂	24 to 48	1.56	1.20	1.53	1.04	1.33	0.25
CO ₂	48 to 72	1.07	0.94	1.16	0.82	1.00	0.15
-	Subtotal	4.37	3.54	5.13	3.77	4.20	0.71
Exhaled VOC	0 to 4	0.01	0.01	0.01	0.01	0.01	0.00
Exhaled VOC	4 to 8	0.01	0.01	0.01	0.01	0.01	0.00
Exhaled VOC	8 to 12	0.01	0.01	0.01	0.01	0.01	0.00
Exhaled VOC	12 to 24	0.03	0.02	0.04	0.04	0.03	0.01
Exhaled VOC	24 to 48	0.04	0.05	0.06	0.06	0.05	0.01
Exhaled VOC	48 to 72	0.05	0.12	0.08	0.07	0.08	0.03
-	Subtotal	0.15	0.22	0.21	0.20	0.20	0.03
Total	-	34.5	38.5	45.9	42.3	40.3	4.9

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	544	183	4.52	1.76	0.44	0.17
Bladder	216	60	1.78	0.50	<0.005	N.A.
Muscle (hind leg) ^b	99.5	104	0.88	0.97	0.47	0.52
Skin (abdominal) ^b	210	65	1.76	0.64	0.46	0.16
Blood ^b	122	18	1.00	-	0.10	0.01
Plasma ^b	199	11	1.66	0.30	0.10	0.01
Spleen	119	13	0.98	0.08	<0.005	N.A.
Liver	525	16	4.36	0.54	0.24	0.01
Kidney	364	47	3.02	0.44	0.03	0.00
Brain	26.2	1.4	0.22	0.02	<0.005	N.A.
Heart	83.9	9.9	0.69	0.05	<0.005	N.A.
Lung	161	54	1.38	0.63	0.01	0.00
Stomach	157	32	1.29	0.18	0.01	0.00
Cecum	793	328	6.65	3.15	0.03	0.01
Large Intestine	298	98	2.56	1.18	0.02	0.01
Small Intestine	526	97	4.42	1.20	0.12	0.04
Thyroid	113	22	0.93	0.15	0.00	0.00
Ovaries	244	27	2.25	0.30	<0.005	N.A.
Pancreas	202	38	1.66	0.15	0.01	0.00
Uterus	174	17	1.44	0.16	0.01	0.00
Total	-	-	-	-	2.06	0.86

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Disposition Summary – Percent of Dose Recovered

Sample	18-01	18-02	18-03	18-04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^c	29.0	33.5	38.8	34.7	34.0	4.0
Feces	0.98	1.24	1.75	3.62	1.90	1.19
CO ₂	4.37	3.54	5.13	3.77	4.20	0.71
VOC	0.15	0.22	0.21	0.20	0.20	0.03
Tissues	1.39	3.32	1.83	1.70	2.06	0.86
GI Tract Contents	0.40	0.46	0.38	0.78	0.51	0.19
Subtotal	36.3	42.3	48.1	44.8	42.3	5.9
Unabsorbed	-	-	-	-	-	-
Gauze	13.8	22.8	16.9	12.0	16.4	6.7
Tape	1.23	0.72	1.81	0.67	1.11	0.58
Appliance	17.6	6.76	6.69	9.40	10.1	5.2
Dose site skin rinse	1.71	0.80	1.64	1.51	1.41	0.42
Subtotal	34.4	31.1	27.0	23.5	30.8	3.7
Dose site	4.70	6.13	4.49	10.0	6.33	2.55
Total	75.4	79.5	79.6	78.3	78.2	2.4

^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.