

**Distribution of Radioactivity 72 Hours Following Dermal Application of 8 mg/kg
[¹⁴C] 2-Ethylhexyl-*p*-methoxycinnamate in Ethanol Vehicle to Female B6C3F1/N Mice – Group 16**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	16-01	16-02	16-03	16-04	Mean	SD
Urine	0 to 8	BLOD	10.4	BLOD	10.5	10.4	0.07
Urine	8 to 24	4.89	14.8	41.6	20.6	20.5	15.5
Urine	24 to 48	4.11	11.2	9.74	7.02	8.02	3.13
Urine	48 to 72 ^a	1.55	6.24	6.01	5.49	4.82	2.20
Cage Rinse	72	23.6	15.5	9.94	19.7	17.2	5.85
-	Subtotal	34.2	58.1	67.3	63.3	55.7	14.9
Feces	0 to 24	8.37	2.28	0.52	4.30	3.87	3.38
Feces	24 to 48	0.91	1.88	0.69	0.68	1.04	0.57
Feces	48 to 72	2.20	0.21	0.28	0.22	0.73	0.98
-	Subtotal	11.5	4.37	1.49	5.20	5.64	4.22
CO ₂	0 to 4	BLOD	BLOD	0.02	0.01	<0.005	N.A.
CO ₂	4 to 8	BLOD	BLOD	BLOD	BLOQ(0.05)	<0.005	N.A.
CO ₂	8 to 12	BLOD	BLOD	BLOD	BLOD	<0.005	N.A.
CO ₂	12 to 24	BLOQ(0.20)	BLOQ(0.16)	BLOQ(0.08)	BLOQ(0.18)	<0.005	N.A.
CO ₂	24 to 48	0.75	BLOQ(0.06)	BLOQ(0.11)	BLOQ(0.17)	0.75	N.A.
CO ₂	48 to 72	BLOQ(0.16)	BLOQ(0.01)	<0.005	BLOQ(0.05)	<0.005	N.A.
-	Subtotal	0.75	BLOQ	BLOQ	BLOQ	0.19	0.38
Total	-	46.40	62.51	68.78	68.51	61.55	10.51

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	131	128	12.4	14.7	0.12	0.12
Bladder	31.8	4.9	2.48	0.66	<0.005	N.A.
Muscle (hind leg)	BLOQ	N.A.	BLOQ(0.70)	0.28	BLOQ	N.A.
Skin (abdominal)	84.6	48.2	6.49	3.59	0.19	0.11
Blood	15.1	2.3	1.00	0.00	0.01	0.00
Plasma	20.7	4.03	1.56	0.14	0.01	0.00
Spleen	BLOQ	N.A.	BLOQ(0.57)	0.18	BLOQ	N.A.
Liver	63.2	8.9	4.85	0.92	0.05	0.00
Kidney	58.3	10.9	4.42	0.59	0.01	0.00
Brain	BLOQ	N.A.	BLOQ(0.18)	0.03	BLOQ	N.A.
Heart	BLOQ(13.5)	N.A.	BLOQ(0.82)	0.17	BLOQ(<0.005)	N.A.
Lung	17.8	1.5	1.34	0.52	<0.005	N.A.
Stomach	77.6	74.0	5.24	3.63	0.01	0.01
Cecum	106	22	8.26	2.34	0.01	0.00
Large Intestine	38.5	2.7	3.01	0.79	<0.005	N.A.
Small Intestine	68.7	27.0	5.42	2.31	0.02	0.01
Thyroid	BLOQ	N.A.	BLOQ(0.74)	0.99	BLOQ	N.A.
Ovaries	BLOQ(54.3)	12.0	BLOQ(3.87)	2.20	BLOQ(<0.005)	N.A.
Pancreas	40.0	4.1	2.80	0.53	<0.005	N.A.
Uterus	39.6	20.4	3.48	2.95	0.01	0.01
Total	-	-	-	-	0.43	0.14

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Disposition Summary – Percent of Dose Recovered

Sample	16-01	16-02	16-03	16-04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^c	34.2	58.1	67.3	63.3	55.7	14.9
Feces	11.50	4.37	1.49	5.20	5.64	4.22
CO ₂	0.75	BLOQ	BLOQ	BLOQ	0.19	0.38
Tissues	0.25	0.40	0.48	0.58	0.43	0.14
GI Tract Contents	0.53	0.09	0.56	0.06	0.31	0.27
Subtotal	47.2	63.0	69.8	69.2	62.3	10.5
Unabsorbed	-	-	-	-	-	-
Appliance Extract	3.38	17.1	6.32	7.42	8.54	5.92
Remaining Carcass	0.10	0.03	0.76	-0.04	0.21	0.37
Gauze	12.3	4.08	2.11	2.73	5.31	4.74
Dose site skin rinse	6.32	2.54	3.55	1.88	3.57	1.96
Subtotal	22.1	23.7	12.8	12.0	17.6	6.1
Dose site	19.3	2.21	5.36	2.79	7.42	8.04
Total	88.6	88.9	87.9	83.9	87.3	2.3

^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%, blood 4.9%, and plasma 2.8%.

^c Includes cage rinse.

^d Remaining Carcass is calculated by subtracting muscle, skin, and adipose estimations from digested carcass.

N.S. = not significant and N.A. = not applicable

BLOD = Below the limit of detection.

BLOQ = Below limit of quantitation. Samples where aliquot DPM was less than 3 times the background DPM were designated BLOQ.

SD = standard deviation.

TBR = Tissue to blood ratio.

A metal mesh tissue capsule placed immediately after dose administration was used as the protective appliance.