

**Distribution of Radioactivity 72 Hours Following Dermal Application of 80 mg/kg
[¹⁴C] 2-Ethylhexyl-*p*-methoxycinnamate in Acetone Vehicle to Male B6C3F1/N Mice – Group 12b**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	12b-01	12b-02	12b-03	12b-04	Mean	SD
Urine	0 to 8	N.S.	N.S.	1.94	N.S.	0.49	0.97
Urine	8 to 24	8.94	10.7	2.59	4.36	6.65	3.80
Urine	24 to 48	8.89	12.3	11.2	8.66	10.3	1.8
Urine	48 to 72 ^a	9.54	9.67	6.16	4.99	7.59	2.38
Cage Rinse	72	3.50	8.13	11.0	8.63	7.82	3.14
-	Subtotal	30.9	40.8	32.9	26.6	32.9	5.9
Feces	0 to 24	0.31	BLOQ(0.36)	0.29	0.64	0.41	0.20
Feces	24 to 48	0.27	0.55	0.31	0.84	0.49	0.26
Feces	48 to 72	0.34	0.53	0.84	0.27	0.50	0.26
-	Subtotal	0.92	1.08	1.44	1.75	1.30	0.37
CO ₂	0 to 4	BLOQ(0.05)	BLOQ(0.09)	BLOQ(0.02)	BLOQ(0.04)	BLOQ	N.A.
CO ₂	4 to 8	BLOQ(0.04)	BLOQ(0.05)	BLOQ(0.05)	BLOQ(0.01)	BLOQ	N.A.
CO ₂	8 to 12	BLOQ(0.03)	BLOQ(0.03)	BLOQ(0.02)	BLOQ(0.01)	BLOQ	N.A.
CO ₂	12 to 24	0.11	0.16	BLOQ(0.09)	0.10	0.12	0.03
CO ₂	24 to 48	0.19	0.32	0.30	0.17	0.25	0.08
CO ₂	48 to 72	0.24	0.30	0.32	0.24	0.28	0.04
-	Subtotal	0.54	0.78	0.62	0.51	0.61	0.12
Total	-	32.3	42.7	35.0	28.9	34.8	5.9

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	1400	370	4.10	1.88	0.10	0.03
Bladder	5440	4660	17.0	14.2	0.01	0.01
Muscle (hind leg)	105	61	0.23	0.03	0.05	0.03
Skin (abdominal)	715	282	2.05	1.07	0.12	0.05
Blood	379	162	1.00	-	0.02	0.01
Plasma	610	238	1.63	0.09	0.02	0.01
Spleen	269	115	0.71	0.06	<0.005	N.A.
Liver	1490	340	4.17	0.92	0.09	0.02
Kidney	2240	340	6.62	2.67	0.04	0.01
Brain	67.5	27.3	0.18	0.01	<0.005	N.A.
Heart	219	52	0.62	0.15	<0.005	N.A.
Lung	543	204	1.46	0.13	<0.005	N.A.
Stomach	2780	2740	4.85	3.77	0.02	0.02
Cecum	2460	1940	5.95	2.01	0.01	0.01
Large Intestine	833	523	1.82	0.43	0.01	0.01
Small Intestine	2830	1300	7.62	2.26	0.07	0.04
Thyroid	736	784	1.22	0.85	<0.005	N.A.
Testes	176	52	0.52	0.23	<0.005	N.A.
Pancreas	597	150	1.69	0.52	0.01	0.00
Total	-	-	-	-	0.55	0.18

**Distribution of Radioactivity 72 Hours Following Dermal Application of 80 mg/kg
[¹⁴C] 2-Ethylhexyl-*p*-methoxycinnamate in Acetone Vehicle to Male Mice – Group 12b**

Disposition Summary – Percent of Dose Recovered

Sample	12b-01	12b-02	12b-03	12b-04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^c	30.9	40.8	32.9	26.6	32.9	5.9
Feces	0.92	1.08	1.44	1.75	1.30	0.37
CO ₂	0.54	0.78	0.62	0.51	0.61	0.12
Tissues	0.45	0.56	0.79	0.37	0.55	0.18
GI Tract Contents	0.12	0.15	0.29	0.14	0.18	0.08
Subtotal	32.9	43.4	36.0	29.4	35.5	6.0
Unabsorbed	-	-	-	-	-	-
Gauze	37.7	22.9	39.1	38.0	34.4	15.8
Appliance	6.74	8.52	1.95	8.75	6.49	3.16
Dose site skin rinse	2.93	5.02	4.13	5.03	4.28	0.99
Subtotal	47.3	36.5	45.2	51.7	45.2	6.4
Dose site	5.83	7.27	6.59	4.85	6.14	1.04
Total	86.1	87.1	87.8	86.0	86.7	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 38.4%, skin 16.5%, blood 4.9%, and plasma 2.8%.

^c Includes cage rinse.

N.S. = no sample and N.A. = not applicable.

BLOQ = Below limit of quantitation.

SD = standard deviation.

TBR = Tissue to blood ratio.

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