

Recovery of Radioactivity 96 Hours Following Dermal Administration of 550 mg/kg [¹⁴C]Iso E Super to Male Fischer 344 Rats with Uncovered Dose Sites Group UN-96-550

Distribution in Tissues (24 h)

Sample	ng-eq IES per g Tissue ^a (Mean)	ng-eq IES per g Tissue ^a (SD)	Tissue Blood Ratio ^a (Mean)	Tissue Blood Ratio ^a (SD)	% Dose in Total Tissue ^a (Mean)	% Dose in Total Tissue ^a (SD)
Blood	7483	1009	Unity	-	0.091	0.008
Adipose	29037	8190	3.89	1.06	0.332	0.086
Muscle	3605	707	0.49	0.14	0.240	0.051
Bladder	25114	26261	3.09	2.75	0.002	0.003
Skin (ears)	100693	38394	13.58	5.50	0.037	0.015
Spleen	6039	787	0.82	0.15	0.003	0.000
Liver	36618	6926	4.93	1.02	0.233	0.046
Kidney	32110	6845	4.34	1.07	0.041	0.009
Brain	1418	513	0.19	0.08	0.002	0.001
Heart	6168	2034	0.85	0.35	0.004	0.001
Lung	8381	2615	1.15	0.45	0.005	0.002
Testes	2608	759	0.36	0.13	0.004	0.001
Thymus	6146	2715	0.83	0.38	0.001	0.000
Pancreas	12218	3613	1.66	0.59	0.007	0.002
Total in Tissues	-	-	-	-	1.00	0.17
Stomach + Contents	1245	676	-	-	0.08	0.05
Small Int + Contents	20172	4681	-	-	1.41	0.33
Cecum + Contents	32035	6825	-	-	2.25	0.43
Large Int + Contents	18845	4072	-	-	1.33	0.28
Total in GI Tract^a	-	-	-	-	5.1	0.8
Dose Skin Site	19435	8651	2.65	1.33	1.35	0.54

Percent of Dose Recovered in Excreta

Excreta	6-21	6-22	6-23	6-24	Mean	SD
Urine ^b	36.2	34.9	41.0	32.3	36.1	3.6
Feces	20.1	16.7	30.6	22.1	22.4	5.9
Total Excreted	56.3	51.7	71.6	54.4	58.5	9.0

Disposition Summary – Percent of Dose Recovered

Absorbed	6-21	6-22	6-23	6-24	Mean	SD
Urine	36.2	34.9	41.0	32.3	36.1	3.6
Feces	20.1	16.7	30.6	22.1	22.4	5.9
Tissues	1.2	1.0	0.8	1.0	1.0	0.2
GI Tract	5.6	4.7	4.1	5.9	5.1	0.8
Carcass Digest	9.3	5.7	3.5	10.8	7.3	3.3
Total Absorbed	72.4	63.1	80.0	72.1	71.9	6.9
Dose Site Skin	2.2	1.1	1.0	1.2	1.35	0.54
Unabsorbed	-	-	-	-	-	-
VOC	7.1	4.8	5.3	6.1	5.8	1.0
Appliance and washes	0.8	0.3	0.1	2.4	0.9	1.0
Total % Applied Dose Recovered	82.44	69.32	86.39	81.74	80.0	7.4

n = 4. SD = standard deviation.

^a Includes contents.

^b Includes urine present in the bladder at time of sacrifice and cage rinse.