Disposition of Radioactivity (Concentration) 5 Minutes to 3 Days Following Intravenous Administration of 3.0 mg/kg [^{14}C]p-Chloroaniline to Male Fischer 344 Rats – Group 4[a]

Nanomoles (as total ^{14}C Equivalents) in Tissues and Excreta (5 minutes to 3 days)

Sample	5 min	15 min	30 min	1 hour	2 hour	4 hour	8 hour	12 hour	1 day	2 day	3 day
Brain Mean	50	49	51	62	34	12	2	1.3	0.60	0.4	0.5
Brain SD	±7	±6	±6.0	±23	±10	±1	±0.2	±0.2	±0.04	±0.05	±0.1
Lung Mean	38	34	20	24	26	16	7	4	2	1	1
Lung SD	±0.3	±19	±1	±3	±4	±3	±0.6	±1	±1	±0.2	±0.1
Liver Mean	481	336	338	324	372	231	98	50	28	14	12
Liver SD	±121	±5	±47	±33	±38	±25	±24	±4	±4	±3	±3
Kidney Mean	90	89	65	53	57	39	11	5	3	2	2
Kidney SD	±19	±12	±8	±7	±6	±4	±2	±0.5	±0.7	±0.1	±0.3
Spleen Mean	12	10	8	8	9	5	4	3	1	1	1
Spleen SD	±1.0	±4	±1	±1	±0.4	±0.3	±0.4	±0.3	±0.1	±0.8	±0.1
Small Intestine Mean	132	174	130	110	121	91	45	19	3	2	1
Small Intestine SD	±44	±24	±31	±21	±25	±30	±25	±10	±0.3	±0.4	±0.8
Fat Mean	280	589	447	525	351	112	28	13	8	6	3
Fat SD	±101	±195	±18	±30	±102	±15	±13	±1	±0.6	±3	±0.7
Testes Mean	41	39	37	41	31	11	2	1	0.5	0.4	0.4
Testes SD	±1.0	±5	±1	±2	±4	±2	±0.3	±0.4	±0.1	±0.3	±0.2
Muscle Mean	1514	1468	931	1324	1025	308	57	30	17	38	7
Muscle SD	±196	±406	±62	±65	±101	±19	±9	±5	±2	±16	±4
Skin Mean	623	523	409	424	345	113	27	18	17	8	7
Skin SD	±24	±80	±87	±118	±92	±23	±6	±1	±5.0	±6	±5
Blood Mean	554	311	322	331	451	164	239	176	142	99	102
Blood SD	±39	±73	±33	±20	±63	±14	±22	±20	±30	±11	±9

Disposition of Radioactivity (Concentration) 5 Minutes to 3 Days Following Intravenous Administration of 3.0 mg/kg [^{14}C]p-Chloroaniline to Male Fischer 344 Rats – Group 4 (continued)

Nanomoles (as total ^{14}C Equivalents) in Tissues and Excreta (5 minutes to 3 days – table continued)

Sample	5 min	15 min	30 min	1 hour	2 hour	4 hour	8 hour	12 hour	1 day	2 day	3 day
Urine Mean	-	28	73	-	985	2489	3250	3365	3291	3084	3324
Urine SD	-	±32	±127	-	±436	±317	±610	±301	±248	±408	±297
Feces/Intestinal Contents Mean	58	108	98	191	402	495	442	271	306	324	278
Feces/Intestinal Contents SD	±13	±47	±26	±51	±52	±61	±55	±62	±91	±56	±41
Injection site Mean	187	146	56	21	13	5	4	18	11	5	6
Injection site SD	±49	±54	±50	±5	±5	±1	±2	±27	±12	±4	±2
Cumulative Total Mean	**4063**	**3931**	**3129**	**3588**	**4220**	**4091**	**4216**	**3974**	**3834**	**3570**	**3745**
Cumulative Total **SD**	**±286**	**±637**	**±350**	**±351**	**±576**	**±213**	**±506**	**±353**	**±343**	**±380**	**±224**

[a] Values are mean ± standard deviation (SD) for three rats at each time point. The target intravenous dose was 3.0 mg/kg (ca. 30 μCi/kg). The amount administered per rat ranged from 3.91-6.97 μCi depending on the weight of the animal. Animal weights ranged from 146 to 240 g). The vehicle was a 1:1:8 mixture of 100% ethanol, propylene glycol, and water, respectively. This table presents summary data of the toxicokinetic study for tissues following 3.0 mg/kg intravenous administration.

[b] The following percentages of body weight were used to calculate the total weight of blood, muscle, skin, and adipose tissues in rats: blood, 9%; muscle, 50%; skin 16%, and adipose, 7% of total body weight. 1-2 g of tissue was solubilized and extracted. Aliquots of the extract were dried, reconstituted and analyzed by HPLC.