Disposition of Radioactivity (Percent Dose) 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]

Percent Dose Recovered 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	1. 06	1.10	1.27	1.48	0.582	0.257	0.051	0.031	0.014	0.010	0.012
Brain SD	±0.13	±0.18	±0.18	±0.42	±0.217	±0.035	±0.006	±0.006	±0.001	±0.002	±0.002
Lung Mean	0.796	0.786	0.492	0.58	0.441	0.350	0.159	0.095	0.051	0.024	0.021
Lung SD	±0.025	±0.447	±0.025	±0.10	±0.045	±0.068	±0.011	±0.031	±0.019	±0.005	±0.003
Liver Mean	10.03	7.79	8.43	7.89	6.35	5.12	2.12	1.31	0.659	0.323	0.291
Liver SD	±2.32	±0.29	±1.10	±0.29	±1.15	±0.71	±0.48	±0.09	±0.137	±0.057	±0.076
Kidney Mean	1.89	2.08	1.63	1.29	0.96	0.87	0.248	0.118	0.069	0.042	0.042
Kidney SD	±0.36	±0.36	±0.14	±0.09	±0.023	±0.10	±0.041	±0.017	±0.02	±0.004	±0.009
Spleen Mean	0.253	0.231	0.190	0.20	0.148	0.119	0.088	0.071	0.029	0.023	0.017
Spleen SD	±0.047	±0.085	±0.032	±0.02	±0.020	±0.011	±0.021	±0.01	±0.004	±0.002	±0.013
Small Intestine Mean	2.80	4.01	3.26	2.67	2.05	12.01	0.994	0.438	0.07	0.038	0.035
Small Intestine SD	±1.03	±0.39	±0.86	±0.40	±0.413	±0.70	±0.58	±0.249	±0.013	±0.009	±0.017
Fat Mean	5.95	14.3	11.2	12.89	6.02	2.49	0.592	0.296	0.181	0.130	0.080
Fat SD	±2.45	±3.27	±0.76	±0.60	±2.17	±0.39	±0.28	±0.022	±0.024	±0.058	±0.020
Testes Mean	0.852	0.914	0.930	1. 00	0.522	, 0.244	0.044	0.030	0.013	0.009	0.009
Testes SD	±0.049	±0.122	±0.028	±0.12	±0.052	±0.047	±0.006	±0.01	±0.004	±0.006	±0.004
Muscle Mean	31.80	33.8	23.3	32.24	17.4	6.82	1.24	0.685	0.390	0.906	0.172
Muscle SD	±2.40	±8.43	±1.12	±1.24	±1.97	±0.58	±0.237	±0.104	±0.043	±0.348	±0.088
Skin Mean	13.20	12.1	10.2	10.43	5.77	2.51	0.582	0.417	0.406	0.196	0.172
Skin SD	±1.2	±1.57	±1.89	±3.30	±0.98	±0.56	±0.141	±0.004	±0.135	±0.104	±0.118
Blood Mean	11.65	7.19	8.06	8.06	7.62	3.36	5.19	4.05	3.30	2.36	2.48
Blood SD	±0.32	±1.64	±0.82	±0.46	±0.78	±0.02	±0.51	±0.42	±0.37	±0.31	±0.22

Disposition of Radioactivity (Percent Dose) 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)

Percent Dose Recovered 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	-	0.94	1.87	-	17.1	55.6	70.4	77.3	77.0	73.7	80.71
Urine SD	-	±0.65	±3.24	-	±8.8	±6.32	±7.81	±4.46	±2.65	±9.6	±2.69
Feces/Intestinal Contents Mean	1.2	2.49	2.46	4.61	6.83	11.0	9.58	6.21	7.11	7.74	6.75
Feces/Intestinal Contents SD	±0.20	±1.05	±0.69	±0.87	±1.11	±1.67	±1.01	±1.23	±1. 75	±0.43	±0.39
Injection site Mean	3.90	2.43	1.41	0.51	0.23	0.12	0.08	0.40	0.24	0.13	0.15
Injection site SD	±0.831	±2.13	±1.14	±0.14	±0.11	±0.02	±0.05	±0.60	±0.24	±0.10	±0.04
Cumulative Total Mean	**85.50**	**89.8**	**74.7**	**83.9**	**72.0**	**91.1**	**91.3**	**91.2**	**89.5**	**85.5**	**90.9**
Cumulative Total **SD**	**±4.0**	**±11.5**	**±7.14**	**±4.07**	**±14.7**	**±3.50**	**±8.86**	**±5.12**	**±0.83**	**±10.5**	**±2.3**

[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.