Disposition of Radioactivity in Tissues 7 Days Following Oral Gavage Administration of 3.0 mg/kg [^{14}C]p-Chloroaniline to Male Fischer 344 Rats – Group 2[a]

Percent Dose Recovered in Tissues (7 days)

Tissue	Rat 13	Rat 14	Rat 15	% Dose in Tissue Mean ± SD
Brain	0.002	0.002	0.005	0.003 ± 0.002
Lung	0.026	0.019	0.017	0.021 ± 0.005
Liver	0.106	0.079	0.063	0.083 ± 0.022
Kidney	0.013	0.017	0.019	0.017 ± 0.003
Spleen	0.007	0.006	0.010	0.008 ± 0.002
Small Intestine	0.006	0.006	0.016	0.009 ± 0.006
Large Intestine	0.005	0.008	0.002	0.005 ± 0.003
Fat	0.027	0.030	0.070	0.042 ± 0.024
Testes	0.003	0.001	0.002	0.002 ± 0.001
Muscle	0.162	0.109	0.111	0.127 ± 0.030
Skin	0.039	0.048	0.069	0.052 ± 0.015
Blood	0.932	0.930	1.29	1.05 ± 0.21
Plasma	N/D[b]	N/D	N/D	–
Subtotal	**1.33**	**1.26**	**1. 67**	**1.42 ± 0.219**

Disposition Summary [Dose Recovered (%)]

Tissue	Rat 13	Rat 14	Rat 15	Percent Dose Mean ± SD
Tissue	1.33	1.26	1.67	1.42 ± 0.219
Excreta	–	–	–	–
Urine	74.70	80.33	81.27	78.77 ± 3.55
Feces	9.86	9.85	12.53	10.75 ± 1.54
Total	**85.89**	**91.44**	**95.47**	**90.93 ± 4.81**

Tissue to Blood Ratio (7 days)

Tissue	Rat 13	Rat 14	Rat 15	Tissue/Blood Ratio Mean ± SD
Brain	0.021	0.028	0.051	0.033 ± 0.016
Lung	0.463	0.359	0.134	0.319 ± 0.168
Liver	0.275	0.186	0.125	0.196 ± 0.076
Kidney	0.167	0.195	0.181	0.181 ± 0.014
Spleen	0.341	0.275	0.355	0.324 ± 0.043
Small Intestine	0.022	0.019	0.045	0.029 ± 0.015
Large Intestine	0.044	0.104	0.012	0.053 ± 0.047
Fat	0.037	0.041	0.069	0.049 ± 0.018
Testes	0.027	0.006	0.011	0.015 ± 0.011
Muscle	0.031	0.021	0.015	0.023 ± 0.008
Skin	0.023	0.029	0.030	0.028 ± 0.004

[a] Values are mean ± standard deviation (SD) for three rats. The actual oral dose was 1.98, 2.09, and 2.08 mg/kg for rats 13 (194 g), 14 (184 g), and 15 (195 g), respectively (ca. 41 μCi/kg).
[b] ND = none detected.
[c] Concentration is nanomoles p-chloroaniline (as total ^{14}C equivalents).

Disposition of Radioactivity in Tissues 7 Days Following Oral Gavage Administration of 3.0 mg/kg [^{14}C]p-Chloroaniline to Male Fischer 344 Rats – Group 2[a] (continued)

Concentration in Tissues (7 Days) in Nanomole-equivalents[c]

Tissue	Rat 13	Rat 14	Rat 15	nmol-eq Mean ± SD
Brain	0.049	0.047	0.167	0.087 ± 0.068
Lung	0.813	0.561	0.535	0.636 ± 0.153
Liver	3.02	2.32	1.96	2.53 ± 0.694
Kidney	0.404	0.510	0.599	0.504 ± 0.098
Spleen	0.210	0.170	0.324	0.238 ± 0.076
Small Intestine	0.200	0.171	0.496	0.289 ± 0.180
Large Intestine	0.140	0.243	0.058	0.147 ± 0.093
Fat	0.827	0.875	2.16	1.29 ± 0.760
Testes	0.091	0.021	0.052	0.055 ± 0.035
Muscle	5.03	3.20	3.44	3.89 ± 0.99
Skin	1.20	1. 42	2.14	1.59 ± 0.49
Blood	28.93	27.42	40.09	32.15 ± 6.92
Plasma	–	–	–	–
Subtotal	**40.91**	**36.97**	**52.49**	**43.46 ± 8.07**

Disposition Summary [Nanomoles p-Chloroaniline (as total ^{14}C equivalents)]

Sample	Rat 13	Rat 14	Rat 15	nmol-eq Mean ± SD
Tissue	40.91	36.97	52.49	43.46 ± 8.07
Excreta	–	–	–	–
Urine	2319	2371	2601	2430 ± 150
Feces	305	291	389	328 ± 53
Total	**2665**	**2699**	**3042**	**2802 ± 209**

[a] Values are mean ± standard deviation (SD) for three rats. The actual oral dose was 1.98, 2.09, and 2.08 mg/kg for rats 13 (194 g), 14 (184 g), and 15 (195 g), respectively (ca. 41 μCi/kg).
[b] ND = none detected.
[c] Concentration is nanomoles p-chloroaniline (as total ^{14}C equivalents).