Disposition of Radioactivity in Tissues 7 Days Following Oral Gavage Administration of 0.3 mg/kg [^{14}C]p-Chloroaniline to Male Fischer 344 Rats – Group 1[a]

Percent Dose Recovered in Tissues (7 days)

Tissue	Rat 10	Rat 11	Rat 12	% Dose in Tissue Mean ± SD
Brain	0.004	0.004	0.003	0.004 ± 0.001
Lung	0.026	0.010	0.019	0.019 ± 0.008
Liver	0.059	0.098	0.087	0.081 ± 0.020
Kidney	0.013	0.016	0.010	0.013 ± 0.003
Spleen	0.008	0.007	0.006	0.007 ± 0.001
Small Intestine	0.017	0.014	0.015	0.015 ± 0.001
Large Intestine	0.007	0.004	0.003	0.004 ± 0.002
Fat	0.118	0.102	0.143	0.121 ± 0.021
Testes	0.004	0.001	0.003	0.004 ± 0.001
Muscle	0.259	0.306	0.093	0.219 ± 0.112
Skin	0.176	0.074	0.096	0.115 ± 0.054
Blood	0.870	0.858	0.727	0.818 ± 0.079
Plasma	N/D[b]	N/D	N/D	–
Subtotal	**1.553**	**2.312**	**1.301**	**1.722 ± 0.526**

Disposition Summary [Dose Recovered (%)]

Sample	Rat 10	Rat 11	Rat 12	Percent Dose Mean ± SD
Tissue	1.553	2.312	1.301	1.722 ± 0.526
Excreta	–	–	–	–
urine	95.31	88.20	79.47	87.66 ± 7.93
Feces	13.90	12.77	12.99	13.22 ± 0.60
Total	**111**	**103**	**93.8**	**103 ± 9**

Tissue to Blood Ratio (7 days)

Tissue	Rat 10	Rat 11	Rat 12	Tissue/Blood Ratio Mean ± SD
Brain	0.075	0.567	0.460	0.059 ± 0.015
Lung	0.616	0.164	0.398	0.393 ± 0.226
Liver	0.163	0.258	0.281	0.234 ± 0.063
Kidney	0.175	0.183	0.165	0.174 ± 0.008
Spleen	0.385	0.336	0.347	0.356 ± 0.026
Small Intestine	0.061	0.067	0.065	0.064 ± 0.003
Large Intestine	0.098	0.039	0.035	0.057 ± 0.035
Fat	0.174	0.152	0.252	0.193 ± 0.053
Testes	0.040	0.012	0.037	0.030 ± 0.016
Muscle	0.054	0.064	0.023	0.047 ± 0.022
Skin	0.114	0.048	0.074	0.079 ± 0.033

[a] Values are mean ± standard deviation (SD) for three rats. The actual oral dose was 0.22, 0.24, and 0.22 mg/kg for rats 10 (202 g), 11 (205 g), and 12 (185 g), respectively (ca. 9 μCi/kg).
[b] ND = none detected.
[c] Concentration is nanomoles p-chloroaniline (as total ^{14}C equivalents).

Distribution of Radioactivity in Tissues 7 Days Following Oral Gavage Administration of 0.3 mg/kg [^{14}C]p-Chloroaniliine to Male Fischer 344 Rats – Group 1[a] (continued)

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

Tissue	Rat 10	Rat 11	Rat 12	nmol-eq Mean ± SD
Brain	0.014	0.015	0.009	0.027 ± 0.004
Lung	0.092	0.037	0.065	0.065 ± 0.027
Liver	0.206	0.363	0.291	0.287 ± 0.079
Kidney	0.046	0.059	0.034	0.047 ± 0.013
Spleen	0.027	0.027	0.021	0.025 ± 0.004
Small Intestine	0.058	0.055	0.049	0.054 ± 0.005
Large Intestine	0.025	0.014	0.009	0.013 ± 0.009
Fat	0.408	0.378	0.479	0.422 ± 0.052
Testes	0.014	0.005	0.010	0.012 ± 0.002
Muscle	0.900	1.137	0.310	0.783 ± 0.426
Skin	0.612	0.275	0.321	0.403 ± 0.182
Blood	3.02	3.19	2.44	2.88 ± 0.394
Plasma	–	–	–	–
Subtotal	**5.42**	**5.56**	**4.04**	**5.01 ± 0.840**

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

Sample	Rat 10	Rat 11	Rat 12	nmole-eq Mean ± SD
Tissue	5.42	5.56	4.04	5.01 ± 0.840
Excreta	–	–	–	–
Urine	329	327	266	307 ± 36
Feces	48	48	41	46 ± 4
Total	**382**	**384**	**311**	**359 ± 42**

[a] Values are mean ± standard deviation (SD) for three rats. The actual oral dose was 0.22, 0.24, and 0.22 mg/kg for rats 10 (202 g), 11 (205 g), and 12 (185 g), respectively (ca. 9 μCi/kg).
[b] ND = none detected.
[c] Concentration is nanomoles p-chloroaniline (as total ^{14}C equivalents).