Recovery of Radioactivity 72 Hours Following Oral Gavage Administration of 10.0 mg/kg [^{14}C]o-Chloropyridine to Male F344 Rats (Study E)[a]

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE[b]	Feces CPDE	Total
6	20.5 ± 4.6	NC[c]	20.5 ± 4.6
12	30.7 ± 4.2	1.84 ± 2.55	32.5 ± 5.8
24	37.4 ± 2.8	20.2 ± 8.6	57.7 ± 7.5
48	41.6 ± 1.9	29.7 ± 6.9	71.4 ± 6.5
72[d]	45.0 ± 1.2	30.7 ± 6.3	75.7 ± 5.9

Distribution in Tissues (72 hours)

Tissue	ng-eq/g Tissue Mean	ng-eq/g Tissue SD	TBR[e] Mean	TBR SD	Dose in Total Tissue (%) Mean[f]	Dose in Total Tissue (%) SD
Adipose[g]	84.0	9.7	0.239	0.036	0.0547	0.0066
Bladder	562	75	1.61	0.30	0.00291	0.00058
Blood	353	23	unity	–	0.171	0.011
Brain	144	11	0.410	0.029	0.0110	0.0015
Heart	377	26	1.08	0.13	0.0120	0.0008
Kidney	2600	162	7.41	0.75	0.135	0.009
Liver	4200	227	11.9	0.6	1.57	0.15
Lung	489	25	1.39	0.15	0.0185	0.0009
Muscle[g]	151	9	0.430	0.016	0.676	0.046
Plasma	202	15	0.573	0.033	0.0508	0.0038
Skin, Ears	309	37	0.877	0.104	0.489	0.062
Spleen	547	14	1.56	0.11	0.0168	0.0013
Testes	167	16	0.472	0.022	0.0197	0.0024
Small Inltestine[h]	NA[j]	–	NA	–	0.127	0.005
Large Intestine[h]	NA	–	NA	–	0.0655	0.0212
Cecum[h]	NA	–	NA	–	0.0863	0.0084
Stomach[h]	NA	–	NA	–	0.0813	0.0070
Carcass[i]	NA	–	NA	–	1.95	0.09

Disposition Summary [Dose Recovered (%)]

Excreta	Residual Carcass[i]	Tissues	Total
75.7 ± 5.9	1.22 ± 0.15	3.51 ± 0.34	80.4 ± 6.1

[a] Values are mean ± standard deviation (SD) for four rats. The average oral dose was 10.0 mg/kg (ca. 29.6 μCi/rat). This study also included toxicokinetics.
[b] CPDE = Cumulative percent dose excreted.
[c] NC = No collection was scheduled for this time interval.
[d] 72 hour (h) urine includes cage rinse.
[e] TBR = Tissue/Blood ratio.
[f] Percent dose was calculated using the following values for the mass of total tissue, expressed as percent of body weight taken from Caster et al., 1956; Lutz et al., 1977; Adolph, 1949; Supplee et al., 1952; Bischoff et al., 1971; and Donaldson, 1919: adipose, 7.0%; blood, 5.2%; muscle, 48.0%; skin, 17% and plasma, 52.0% of blood.
[g] Adipose and muscle values are averaged results for two sampling locations.
[h] Includes contents.
[i] Carcass values are based on the residual digested carcass after the removal of the listed tissues (i.e., percent dose measured in skin, adipose, blood, and muscle was subtracted from the total percent dose measured in the carcass.)
[j] NA = Not applicable