

Recovery of Radioactivity 24 Hours Following Single Oral Administration
of $^{51}\text{CrCl}_3$ plus Nonradiolabeled $\text{Na}_2\text{Cr}_2\text{O}_7$ (4 $\mu\text{mol/kg}$) to Male B6C3F₁ Mice (Study E)^a

Distribution in Tissues in Fasted Mice (24 hours)

Tissue	nmol-eq Chromium per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue
Blood ^b	0.0780 ± 0.1476	unity	0.0895 ± 0.1686
Forestomach ^c	0.0542 ± 0.0634	24.4 ± 24.1	0.00189 ± 0.00171
Glandular Stomach ^c	0.0571 ± 0.0761	21.3 ± 23.5	0.00463 ± 0.00584
Duodenum ^c	0.280 ± 0.193	278 ± 463	0.0280 ± 0.0205
Jejunum ^c	0.114 ± 0.119	66.4 ± 114.9	0.0295 ± 0.0208
Ileum ^c	0.0794 ± 0.1223	26.8 ± 51.8	0.00652 ± 0.00863
Cecum ^c	0.106 ± 0.156	34.2 ± 54.0	0.00474 ± 0.00563
Large Intestine ^c	0.0492 ± 0.0704 ^z	12.4 ± 10.8	0.00565 ± 0.00710

Distribution in Tissues in Fed Mice (24 hours)

Tissue	nmol-eq Chromium per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue
Blood ^b	0.00256 ± 0.00393	unity	0.00303 ± 0.00462
Forestomach ^c	0.0531 ± 0.0141	75.5 ± 51.1	0.00192 ± 0.00060
Glandular Stomach ^c	0.0628 ± 0.0265	89.6 ± 73.3	0.00541 ± 0.00273
Duodenum ^c	0.144 ± 0.050	237 ± 173	0.0219 ± 0.0118
Jejunum ^c	0.0130 ± 0.0064	18.7 ± 16.8	0.00581 ± 0.00202
Ileum ^c	0.00762 ± 0.00546	10.7 ± 12.3	0.000546 ± 0.000451
Cecum ^c	0.0180 ± 0.0103	24.0 ± 22.8	0.00133 ± 0.00095
Large Intestine ^c	0.00922 ± 0.00150 ^z	13.7 ± 8.8	0.00127 ± 0.00036

% Dose Recovered

Sample	Fasted	Fed
GI Tissues	0.0824 ± 0.0606	0.0362 ± 0.0079
Blood and GI Tissues	0.173 ± 0.218	0.0393 ± 0.0079

^aAll values expressed as mean ± standard deviation (SD) (N = 4 for fasted mice and N = 4 for fed mice.) The target dose was 4 $\mu\text{mol chromium/kg}$. The actual dose delivered was $4.00 \pm 0.07 \mu\text{mol/kg}$ ($5.19 \pm 0.72 \mu\text{Ci}$). (N = 8).

^bPercent of dose in blood was calculated using the following percentages of body weight: blood 4.9% (International Life Sciences Institute. 1994. Physiological parameter values for PBPK models.)

^cDoes not include contents.

^zStatistically different between fasted and fed mice.