Recovery of Radioactivity 24 Hours Following Single Oral Administration of $Na_2{}^{51}CrO_4$ plus Nonradiolabeled $Na_2Cr_2O_7$ (4 µmol/kg) to Male B6C3F$_1$ Mice (Study C)[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]	3.32 ± 0.33	unity	3.94 ± 0.13
Forestomach[c]	1.27 ± 0.59	0.413 ± 0.187	0.0649 ± 0.0525
Glandular Stomach[c]	1.49 ± 0.20	0.482 ± 0.062	0.129 ± 0.048
Duodenum[c]	1.68 ± 0.37	0.545 ± 0.118	0.201 ± 0.088
Jejunum[c]	1.53 ± 0.49	0.498 ± 0.169	0.358 ± 0.215
Ileum[c]	1.57 ± 0.59	0.509 ± 0.184	0.115 ± 0.043
Cecum[c]	2.15 ± 0.68	0.703 ± 0.240	0.118 ± 0.018
Large Intestine[c]	1.55 ± 0.50	0.504 ± 0.170	0.171 ± 0.104

Distribution in Tissues in Fed Mice (24 hours)

Tissue	nmol-eq Chromium per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue
Blood[b]	1.75 ± 1.54	unity	2.16 ± 1.90
Forestomach[c]	0.605 ± 0.185	0.200 ± 0.061	0.0299 ± 0.0141
Glandular Stomach[c]	0.930 ± 0.202	0.307 ± 0.070	0.0804 ± 0.0256
Duodenum[c]	0.649 ± 0.308	0.215 ± 0.103	0.143 ± 0.070
Jejunum[c]	0.438 ± 0.383	0.144 ± 0.126	0.0724 ± 0.0552
Ileum[c]	0.403 ± 0.328	0.132 ± 0.108	0.0162 ± 0.0121
Cecum[c]	0.707 ± 0.579	0.233 ± 0.191	0.0498 ± 0.0373
Large Intestine[c]	0.585 ± 0.547	0.193 ± 0.182	0.0812 ± 0.0759

% Dose Recovered

Sample	Fasted	Fed
GI Tissues	1.16 ± 0.25	0.440 ± 0.219
Blood and GI Tissues	5.09 ± 0.38	2.63 ± 2.16

[a]All values expressed as mean ± standard deviation (SD) (N = 3 for fasted mice and N = 4 for fed mice.) The target dose was 4 µmol chromium/kg. The actual dose delivered was 4.09 ± 0.41 µmol/kg (8.74 ± 0.74 µCi). (N = 7).
[b]Percent 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.)
[c]Does not include contents.