## 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 I)[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] | 0.0474 ± 0.0130[z] | unity | 0.0603 ± 0.0153[z] |
| Forestomach[c] | 0.613 ± 0.346 | 13.9 ± 10.3 | 0.0313 ± 0.0190 |
| Glandular Stomach[c] | 0.974 ± 0.177 | 21.4 ± 5.3 | 0.0886 ± 0.0159 |
| Duodenum[c] | 13.6 ± 6.2[z] | 297 ± 135 | 1.56 ± 0.79 |
| Jejunum[c] | 1.54 ± 0.63[z] | 33.1 ± 12.6 | 0.905 ± 0.470 |
| Ileum[c] | 0.0477 ± 0.0027[z] | 1.07 ± 0.32 | 0.00531 ± 0.00169 |
| Cecum[c] | 0.109 ± 0.037[z] | 2.36 ± 0.85 | 0.00915 ± 0.00300 |
| Large Intestine[c] | 0.0373 ± 0.0077 | 0.843 ± 0.355 | 0.00578 ± 0.00078 |

Distribution in Tissues in Fed Mice (24 hours)

| Tissue | nmol-eq Chromium per g Tissue | Tissue/Blood Ratio | % Dose in Total Tissue |
|---|---|---|---|
| Blood[b] | 0.00927 ± 0.00447[z] | unity | 0.0100 ± 0.0047[z] |
| Forestomach[c] | 0.830 ± 0.407 | 94.5 ± 44.0 | 0.0324 ± 0.0225 |
| Glandular Stomach[c] | 1.53 ± 0.77 | 218 ± 193 | 0.134 ± 0.063 |
| Duodenum[c] | 0.695 ± 0.451[z] | 81.7 ± 70.2 | 0.0754 ± 0.0557 |
| Jejunum[c] | 0.0345 ± 0.0150[z] | 4.35 ± 3.07 | 0.0155 ± 0.0064 |
| Ileum[c] | 0.0175 ± 0.0113[z] | 2.04 ± 1.44 | 0.00112 ± 0.00065 |
| Cecum[c] | 0.0510 ± 0.0257[z] | 5.79 ± 2.74 | 0.00408 ± 0.00195 |
| Large Intestine[c] | 0.0403 ± 0.0352 | 3.89 ± 2.28 | 0.00576 ± 0.00603 |

% Dose Recovered

| Sample | Fasted | Fed |
|---|---|---|
| GI Tissues | 2.61 ± 1.11[z] | 0.268 ± 0.104[z] |
| Blood and GI Tissues | 2.67 ± 1.12[z] | 0.278 ± 0.106[z] |

[a]All values expressed as mean ± standard deviation (SD) (N = 4 for fasted mice and N = 4 for fed mice.) The target dose was 4 µmol chromium/kg. The actual dose delivered was 4.42 ± 0.06 µmol/kg (5.96 ± 0.53 µCi). (N = 8).
[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.
[z]Statistically different between fasted and fed mice. ($p \leq 0.05$).