|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Radiotracers & Target radionuclides | | | | | |
| Strontium | Database no. | Activity conc. of source (Bq/g) | Mass needed for 0.5g sample | Activity to be in sample (Bq) | Notes |
| Sr-90 Target | RAM 1595 | 103.4 | 0.1 | 10.34 |  |
| Sr-85 Tracer | RAM 1591 | 12.7 | 0.6 | 7.62 |  |
|  |  |  |  |  |  |
| Uranium |  |  |  |  |  |
| U-238 Target | Depleted U ICPMS dilute | 0.6121 | 0.081685999 | 0.05 |  |
| U-236 Tracer | RAM 1593 | 0.09937 | 0.503169971 | 0.05 |  |
|  |  |  |  |  |  |
| Thorium |  |  |  |  |  |
| Th-232 Target | Th ICPMS Std 1000 ppm | 4.058 | 0.012321341 | 0.05 |  |
| Th-229 Tracer | RAM 1459 | 0.8561 | 0.058404392 | 0.05 |  |
|  |  |  |  |  |  |
| Plutonium |  |  |  |  |  |
| Pu-239 Target | RAM 1579 Dilute | 0.5188 | 0.096376253 | 0.05 |  |
| Pu-242 Tracer | RAM 1584 | 0.9859 | 0.050715083 | 0.05 |  |
|  |  |  |  |  |  |
| Np |  |  |  |  |  |
| Np-237 contaminant | RAM 219 | 4.6 | 0.010869565 | 0.05 | Need to dilute |
|  |  |  |  |  |  |
| Pb |  |  |  |  |  |
| Pb-210 contaminant | RAM 324 | 463 | 0.01 | 4.63 |  |
|  |  |  |  |  |  |
| Mixed Gamma source | RAM 1297 |  | 0.1 |  |  |
| Am-241 |  | 81.24 |  | 8.124 |  |
| Cd-109 |  | 27.72 |  | 2.772 |  |
| Co-57 |  | 0.2587 |  | 0.02587 |  |
| Ce-139 |  | 0.00139 |  | 0.000139 |  |
| Sn-113 |  | 0.000765 |  | 0.0000765 |  |
| Cs-137 |  | 76.47 |  | 7.647 |  |
| Mn-54 |  | 1.211 |  | 0.1211 |  |
| Zn-65 |  | 0.9162 |  | 0.09162 |  |
| Co-60 |  | 49.69 |  | 4.969 |  |