

Actinium-225 (Accelerator-Produced) Product Information

Specifications

Radioisotope	Ac-225
Half-Life/Daughter	9.920 days to francium-221
Decay	Decay Radiation Information (NNDC)
Chemical Form	Solid actinium nitrate
Radionuclidic Purity	≥99% by activity (gamma spectroscopy), not including Ac-227 or daughter isotopes; ≤2% Ac-227 at shipment (value extrapolated from earlier runs)
Production Route	Proton bombardment of natural thorium target at Brookhaven or Los Alamos National Laboratory, chemically processed at Oak Ridge National Laboratory
Processing	Separated by ion exchange and extraction chromatography
Primary Container	Glass screw top V-vial in nonreturnable container
Availability	Routinely available (every other month); order 4–6 weeks in advance
Unit of Sale	Millicuries

Other Information

- CoA provided
- Can also be supplied as a bismuth-213 generator