Product Information

Isotope Program
US Department of Energy

NIDC | NATIONAL ISOTOPE DEVELOPMENT CENTER
MANAGED BY THE U.S. DEPARTMENT OF ENERGY ISOTOPE PROGRAM

Specifications

Radium-224/Lead-212/Bismuth-212 Generator

Half-Life/Daughter	Radium-224: 3.6319 days to radon-220 Lead-212: 10.64 hours to bismuth-212
Decay	Decay Radiation Information (NNDC)
Chemical Form	Ra-224 absorbed on AG MP-50 resin
Radionuclide Purity	>99.9% Ra-224; <0.01% Th-228
Production Route	Decay of thorium-228
Processing	Ion exchange separation
Primary Container	Generator is housed in a one inch lead pig with inlet/outlet holes
Availability	Routinely available (monthly up to 20 mCi); order 8–10 weeks in advance
Unit of Sale	Millicuries

Other Information

Calibration of stated activity is to the date/time of shipment for radioisotopes