

For the convenience of our customers, ORTEC offers an alpha particle source for energy calibration of charged-particle detectors and spectrometers. The source is carefully manufactured to ensure source integrity while providing minimum selfabsorption. The source is calibrated to within 1% of the absolute disintegration rate.

CALIBRATED ²⁴¹Am SOURCE ORTEC Am-1C

Isotopically pure ²⁴¹Am of 0.1- μ Ci nominal activity is electrodeposited on platinum and is calibrated to within 1% of the absolute disintegration rate. The energy spectrum from ²⁴¹Am contains alphas of 5.486 MeV (85%), 5.443 MeV (12.8%), and others <2% each.

Specifications

The alpha source is electrodeposited on 0.127-mm-thick, 12.7-mm-diameter platinum foil. The active source diameter is nominally 3 mm, and equivalent source thickness is <8 keV. The source holder is stainless steel, 6.35 mm thick and 17.46 mm in outside diameter.

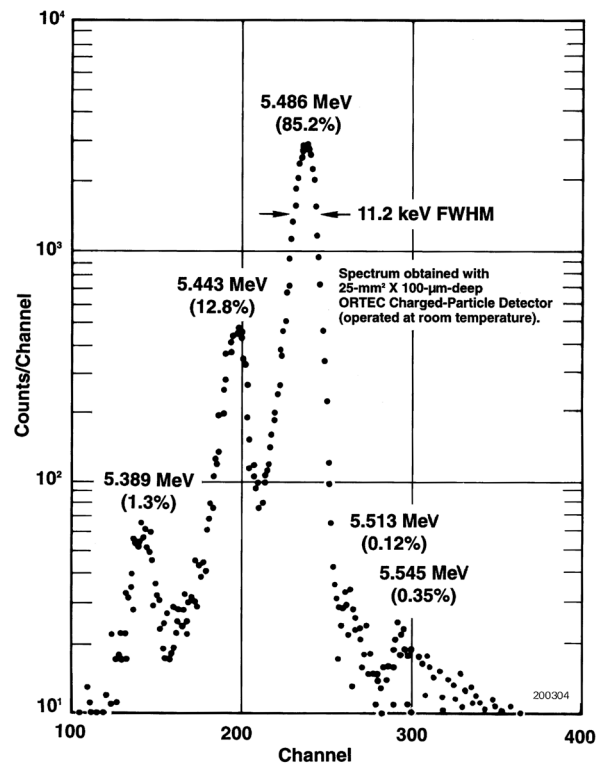
USA users must have an NRC and/or Agreement State License with provisions for type and quantity of isotope involved. **A copy of this license**, authorizing the possession of the source ordered, must accompany an order for these ORTEC sources.

Ordering Information

To order, specify:

Model Description

Am-1C Calibrated ²⁴¹Am Source



Typical ²⁴¹Am Spectrum Obtained with an ORTEC Partially-Depleted Detector.