

CeBr₃ Scintillator



Cerium Bromide(CeBr₃) is a new generation halide scintillator, it has fast decay time(20 ns), high light output(60,000 Photons/MeV) and relatively excellent energy resolution(<4.5% @662keV) meanwhile it was characterized by a very small intrinsic background, all of these properties made it suitable to be used in high resolution gamma spectrometry and relevant application.

Basic information

- Growth technique: Bridgman
- Dimension(max):Ø100 mm x 130 mm length
- Achieved items: encapsulated crystal and detectors

General properties

Density(g/cm ³)	5.10
Decay time(ns)	20
Light output(Photons/MeV)	60.000
Wavelength of emission peak(nm)	380
Energy resolution(@662KeV)	<4.5%
Refractive index	2.10
Hygroscopic	Yes

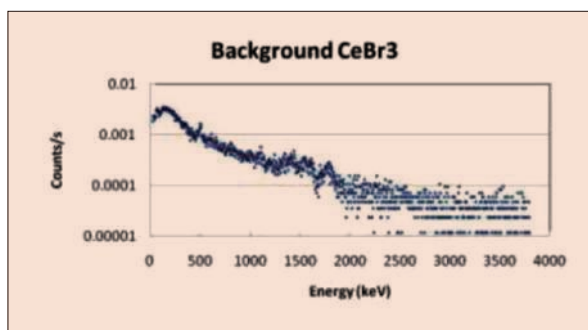
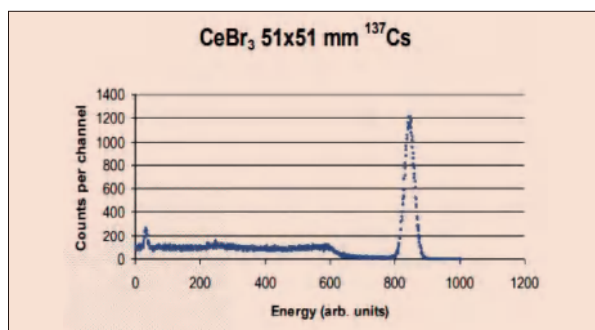
Characterization

Dimension of CeBr₃: Ø 51x51 mm

PMT: R6231; Radiation source: Cs¹³⁷

Energy resolution: 3.8%

Background: 0.025 c/s/cc for standard, <0.001 c/s/cc for ultra low CeBr₃



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