

Introducing the **CsI-Advantage** detector line

Fill the cost and performance gap between NaI(Tl) and LaBr₃.

CsI-Advantage: The highest-precision scintillator detectors suitable for low-background counting. Available in 1-inch to 3-inch standard and custom sizes.

Complete detector solutions with embedded TwinBase HV supply, digital MCA and guaranteed system performance.

The **eMorpho/CsI** digital MCA incorporates firmware that was specifically developed to improve CsI(Na) performance.

dE/E	662 keV	1333 keV	2615 keV
LaBr ₃	2.9%	2.1%	1.6%
CsI(Na)	5.5%	4.0%	3.1%
NaI(Tl)	6.6%	5.0%	4.0%

LaBr₃ by Saint-Gobain Crystals;
CsI(Na) and NaI(Tl) by Bridgeport
Instruments; crystals provided by
ScintiTech, select grade material.
All crystals were 3-inch by 3-inch.

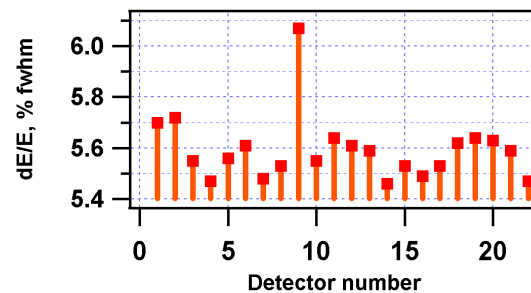


Characteristics

- ◆ eMorpho/CsI improves CsI(Na) energy resolution, e.g. from 6.4% to 5.6% fwhm at 662 keV. Note: individual results may vary.
- ◆ Complete systems with guaranteed performance are available from Bridgeport Instruments, LLC.
- ◆ Highest-precision scintillator suitable for low-background counting and low-rate counting (< 5000 cps).
- ◆ High stopping power; tolerant to thermal shock.
- ◆ No internal radioactivity

System components

- ◆ R2D detector with
 - Select grade crystal (standard or custom size)
 - Gain stable, highly linear PMT
 - Plug-on embedded TwinBase HV supply
 - Mu-metal steel housing (customizable)
- ◆ eMorpho/CsI MCA with CsI(Na)-specific firmware and analog signal conditioning
- ◆ Graphical user interface with scripting language
- ◆ Open-source device driver for eMorpho/CsI digital MCA



Energy resolution at 662 keV measured for an array of 22 pcs. 3" x 3" detectors, measured at 2000 cps.



Digital MCAs
Detectors



Inorganic
Scintillators
Gamma cameras

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