ORANO LEA

LEA gamma- och röntgenkällor

Calibration sources

Certified gamma and X-ray sources from LEA/Orano – point s ources (EGS, EXS) and sources in vegetable, resin, charcoal-filter a nd paper matrices for calibration and checks of spectrometers and r adiation protection instruments. The 12ML01 mixture is available a s an EGS point source.



Radiation
Gamma and X-rays [1]

Source formats
Point sources; vegetable, r esin, charcoal-filter and pa per matrices [1]

Use
Calibration and verification of spectrometers and radiation-protection instruments [1]

Specifications

DETECTOR

Radiation	Gamma and X-rays	[1]
Example nuclides, EGS	Co-57, Co-60, Cs-137, Eu-152	[2]
Standard radionuclides, EXS	Fe-55 and Cd-109	[3]
Catalog container volumes, EGR	15, 50, 250, 450, 500, 1000 or 3000 ml	[4]

MECHANICAL

Active diameter, standard EGS A/E	3 mm	[2]

ENVIRONMENT & RATINGS

Source formats	Point sources; vegetable, resin, charcoal-filter and paper matrices	[1]
Matrix, EGR	Thermosetting resin; sealed source with water-equivalent activity	[4]

GENERAL

Use	Calibration and verification of spectrometers and radiation-protection instruments	[1]
Catalog activities, EGS A/E	4, 40, 400 or 700 kBq, depending on nuclide	[2]
ISO 2919, EGS A/E	C11111	[2]
ISO 2919, EGS B/V	C22212	[2]
X-ray flux, catalog EXS B	16,000 photons/s over 4π sr	[3]

Sources

[1] X and gamma solid sources
LEA / Orano · product-page · page heading; product list; Applications · checked 2026-10-16
https://www.orano.group/lea/en/radioactive-sources/x-and-gamma-solid-sources

[2] EGS point γ sources
LEA / Orano · product-page · Radionuclides; EGS A/E; EGS B/V · checked 2026-10-16
https://www.orano.group/lea/en/radioactive-sources/x-and-gamma-solid-sources/egs-point-gamma-sources

[3] EXS point X sources
LEA / Orano · product-page · EXS; EXS B · checked 2026-10-16
https://www.orano.group/lea/en/radioactive-sources/x-and-gamma-solid-sources/exs-point-x-sources

[4] EGR γ sources in resin matrix
LEA / Orano · product-page · EGR · checked 2026-10-16
https://www.orano.group/lea/en/radioactive-sources/x-and-gamma-solid-sources/egr-gamma-sources-in-resin-matrix

Every value is taken from the manufacturer’s own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer’s published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.