

• Nuclear medicine • Gamma reference sources •

Gamma reference sources for dose calibrators are characterized in terms of activity.

Their geometry and certified activity enable them to be used in testing the constancy of response of dose calibrators.

• Technique

These sealed sources are packaged for ease and safety of handling.

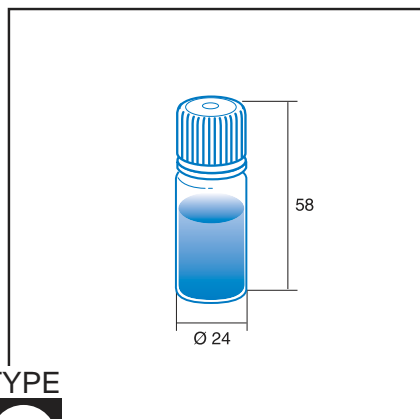
The radionuclide is uniformly distributed within a thermosetting resin. LEA proposes 3 long-lived radionuclides covering a wide energy range from 80 keV to 1330 keV.

Type G sources are classified as "sealed sources".

They are approved under the classification C22212, complying with the standards AFNOR NF M61-002, ISO 2919 and ANSI N 542.

The calibrated source is supplied in a lead container whose thickness complies with transport standards.

• Available packages



TYPE



Plastic vial with screwed and bonded polypropylene cap containing thermosetting resin corresponding to 10 cm³ of solution.



Gamma reference sources for dose calibrators

Radionuclide Half-life	Radiation energy MeV)		Product code	Activity		Measurement uncertainty %	Radionuclide used
	γ	X _k		MBq	mCi		
¹³³Ba 1,05 x 10 ¹ years	0,081	0,031	BA133EGAF50 BA133EGAF55	1 x 10 ¹	2,7 x 10 ⁻¹	3	¹³¹I - ¹²³I ²⁰¹Tl - ⁹⁹Tc^m ¹¹¹In
	0,276			2 x 10 ¹	5,4 x 10 ⁻¹	3	
	0,302						
	0,356						
	0,384						
⁵⁷Co 2,72 x 10 ² days	0,122		CO57EGAF80 CO57EGAF90	1 x 10 ²	2,7 x 10 ⁻¹	3	⁹⁹Tc^m
	0,136			2 x 10 ²	5,4 x 10 ⁻¹	3	
¹³⁷Cs + ¹³⁷Ba^m 3,02 x 10 ¹ years	0,662	0,032	CS137EGAF50 CS137EGAF65	1 x 10 ¹	2,7 x 10 ⁻¹	3	¹³¹I - ¹⁸F
				4 x 10 ¹	1,1 x 10 ⁻¹	3	

The laboratory is approved COFRAC and tests your dose calibrators, within your nuclear medicine department. Our team remains at your disposal to answer your questions.