

Sources for SPECT

We supply a wide range of Attenuation Correction line sources for Single Photon Emission Computed Tomography (SPECT) studies. A SPECT image is developed by measuring a collimated radiation beam emitted from a patient's body. The radiation beam is produced by injecting a known radiopharmaceutical into the patient.

SPECT image quality can suffer from unquantified attenuation effects caused as the beam passes through tissue of varying density and thickness. A line source is utilized to produce a "control beam" that is measured concurrently with the "radiopharmaceutical beam." The two beams are integrated and patient specific attenuation is calculated.

The resulting image is of higher quality than an image produced without attenuation correction. The typical nuclides used in Attenuation Sources for SPECT studies are Gd-153, Co-57 and Ba-133. Sources are singly or doubly encapsulated in both line and point geometries. The nuclides, activities and dimensions are manufactured in accordance to OEM Camera manufacturer specifications.

Camera Manufacturer	Camera Model	Item#	Nuclide	Nominal Activity	Sold As	System Requires	Recommended Replacement
Siemens Medical	E-Cam	NES-8426-28 NES-8426-4	Gd-153 Gd-153	192 mCi 80 mCi	Set/ 28 Set/ 4	1 set 1 set	N/A 6 months
	Symbia	HEGL-0133 PHI-0124	Gd-153 Co-57	10 mCi 50 µCi	Each Each	1 1	2 years 1 year
GE Healthcare	Millenium Myosite SMV DST XLI	NES-8429-SET NES-8429-SET NES-8424	Gd-153 Gd-153 Gd-153	450 mCi 450 mCi 300 mCi	Set/ 2 Set/ 2 Each	1 1 2	12-18 months 12-18 months 12-18 months
Philips/ADAC	MDC Vertex	HEGL-0109	Ge-68	500 µCi	Each	1	1 year
	Forte Skylight Cardio 60	NES-8412 78410	Gd-153 Lead Pig	250 mCi	Each Each	2 3	1 year 12-18 months
	Cardio MD	NES-8497	Gd-153	240 mCi	Each	2	12-18 months
	Precedence	MMS07-153-100U	Gd-153	100 µCi	Each	6	12-18 months
	Brightview XCT	MMS07-153-100U	Gd-153	100 µCi	Each	6	12-18 months
Spectrum Dynamics	D-SPECT	MED3614	Co-57	12 mCi	Each	1	1 year

Fillables:

We can convert your fillable phantom to a long-lived solid source! Contact your sales rep for more info.

