

Sources for SPECT

EZIP manufactures 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.



Application Guide

SPECT Sources

Camera Manufacturer	Camera Model	Product Code EZIP	Nuclide	Nominal Activity(mCi)	Nominal Activity(MBq)	SSDR	Sold As	System Requires	CE Marked Y/N	Application	Recommended Replacement
Siemens Medical	e.cam	NES8426-28	Gd-153	192	7.10 GBq	CA0406S204S	Set of 28	1	Y	*AC	NA
Solutions		NES8426-4	Gd-153	80	2.96 GBq	CA0406S204S	Set of 4	1	Y	*AC	6 months
	Symbia	HEGL-0133	Gd-153	10	370	CA0406S165S	Each	1	Y	QC	2 Years
		PHI-0124	Co-57	0.05	1.85	CA0406S118S	Each	1	Y	QC	1 Year
GE Healthcare	Millennium Myosight	NES8429-SET	Gd-153	450	16.6 GBq	CA0406S204S	Set of 2	1	Y	*AC	12-18 months
	SMV DST XLI	NES8424**	Gd-153	300	11.1 GBq	CA0406S204S	Each	2	Y	*AC	12-18 months
Phillips Healthcare	MCD Vertex	HEGL-0109	Ge-68	0.5	18.5	CA0406S154S	Each	1	Y	QC	1 Year
	Forte	NES8412	Gd-153	250	9.25 GBq	CA0406S204S	Each	2	Y	*AC	1 Year
		78410	Lead Pig				Each	3	Y		12-18 months
	CardioMD	NES8497	Gd-153	240	8.8 GBq	CA0406S204S	Each	2	Y	*AC	12-18 months
	Precedence	MMS07-153-100U	Gd-153	0.1	3.7	N/A	Each	6	Y	QC	12-18 months
	Brightview XCT	MMS07-153-100U	Gd-153	0.1	3.7	N/A	Each	6	Y	QC	12-18 months

*Attenuation Correction

**Customers must return holders for reload

Fillables:

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

