



Easy and direct labeling of PET tracers.

⁶⁸Ga PET imaging is an excellent approach for healthcare professionals looking for precise localization in diagnostic imaging. With the GMP certification of our ITM ⁶⁸Ge/⁶⁸Ga Generator we have set yet another milestone in order to establish ⁶⁸Ga as next generation radioisotope for diagnostic purposes. The generator columns unique metal free design and its low acidic eluent allow the fast and convenient onsite production of short-lived high-quality ⁶⁸Ga for radiolabeling without prior prepurification.

Benefit from our innovative fully integrated ⁶⁸Ga platform for the manufacturing of ⁶⁸Ga radiolabeled PET tracers.



ITM ⁶⁸Ge / ⁶⁸Ga GENERATOR

Metal-free generator in GMP quality.

The metal free ITM ⁶⁸Ge/⁶⁸Ga Generator allows fast and convenient onsite production of ⁶⁸Ga for radiolabeling.



iQS-TS

Fully automated Theranostics Synthesizer.

iQS-Theranostics Synthesizer is a multipurpose automated cassettebased module for the preparation of ⁶⁸Ga, ¹⁷⁷Lu and ⁹⁰Y radiolabeled biomolecules.



RADIOLABELING SETs

iQS GMP chemicals to obtain highest yield.

For both iQS systems there are suitable Sets available.



KEY ADVANTAGES

Fast and convenient labeling of PET tracers

- > Metal free matrix allows direct labeling
- > Low acidic eluent (0.05 M HCl)
- > Small elution volume (4 ml)



iQS[®] Ga-68 FLUIDIC LABELING MODULE

Self-shielded synthesis module for convenient labeling

The iQS® Ga-68 Fluidic Labeling Module is the most compact and self-shielded system for radiolabeling of DOTA-peptides.

PRECISELY FOR ME.

OPTIMIZE YOUR AMOUNT OF 68Ga ACTIVITY NOW

Benefit from attractive financing options

PHYSICAL DATA

Mother nuclide	⁶⁸ Ge	Monthly payment negotiable
Half-life	270.95 days	negotiable
Decay mode	Electron capture	
Decay energy	106 keV	
Daughter nuclide	⁶⁸ Ga	
Half-life	67.71 min	
Decay mode	Beta plus decay (89%), Electron capture (11%)	
Decay energy	E (β^{+}) _{max} = 1.9 MeV Gamma: 511 keV (178%, annih	ilation)

GENERATOR SPECIFICATION

Column material	Silica gel modified with dodecyl gallate (CAS: 166-52-5)	
Primary package	Peek column	
Secondary package	Lead container	
Lead shielding	36–50 mm thickness	
Eluent	Sterile 0.05 M aqueous hydrochloric acid solution	
Elution volume	4 ml	
Elution yield	Not less than 80 %	
Elution speed	1-5 ml/min, max 6 bar	
Shelf life	12 months or 250 elutions (whatever endpoint reached first)	
Generator size (Nominal ⁶⁸ Ge radioactivity)	0.3 GBq-2 GBq	

ELUATE SPECIFICATION

Chemical form	Gallium (III) chloride in 0.05 M HCI				
Appearance	Clear and colorless solution				
Volume	4ml				
Chemical purity of the eluate	Fe ≤ 10 µg/GBq Nb ≤ 10 µg/GBq	Cu ≤ 10 µg/GBq Ni ≤ 10 µg/GBq	Ga-69 ≤ 10 µg/GBq	Pb ≤ 10 μg/GBq Zn ≤ 10 μg/GBq	
Lauryl gallate in eluate	≤ 5 ppm				
Radiochemical purity	\geq 95% gallium-68 in the form of Ga3+ ion				
Radionuclidic purity of the eluate	Gallium-68 minimum 99.9% of the total radioactivity				
Germanium-68 and gamma-ray-emitting impu- rities at calibration time	≤ 0.005% of the total radioactivity				
Specific activity of Gallium-68	Product is carrier-free				
Microbiological status	Eluate sterile at release				
Bacterial endotoxins	≤ 20 EU/ml				
Storage	-10 to +40°C taking into account radiation protection guidelines				

⁶⁸Ga is a radiopharmaceutical precursor and it is not intended for direct use in patients. It is to be used only for the radiolabeling of targeting molecules that have been specifically developed and authorized for radiolabeling with ⁶⁸Ga.

Distribution of this brochure only allowed in countries, in which the generator has Marketing Authorization or is not considered as a medical product.

About the ITM Group

ITM, a radiopharmaceutical biotech company, is dedicated to providing the most precise cancer radiotherapeutics and diagnostics to meet the needs of patients, clinicians and our partners through excellence in development, production and global supply. With patient benefit as the driving principle for all we do, ITM is advancing a broad pipeline combining its superior radioisotopes with targeting molecules to create precision oncology treatments. ITM is leveraging its leadership and nearly two decades of radiopharma expertise combined with its worldwide network to enable nuclear medicine to reach its full potential for helping patients live longer and better.

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