



Gallium-68 generator

Ge-68/Ga-68 generator is a device used to provide the investigators in nuclear medicine with the positron-emitting radionuclide ^{68}Ga . The parent isotope ^{68}Ge has a half-life of 270.95 days and can be easily delivered to hospitals as the generator, where it can be used as the source of Ga-68 within not less than one year. Gallium-68 (with a half-life of only 67.71 minutes, difficult for transport) can be easily eluted from the generator any time at the place of the application and used for different purposes.

TECHNICAL CHARACTERISTICS

The ^{68}Ga – generator of a chromatographic type represents a glass column with a sorbent based on modified titanium dioxide. The parent radionuclide ^{68}Ge is fixed on this sorbent. The column is placed into the lead shielding container and provided with eluent and eluate lines. ^{68}Ga , which is formed as a result of ^{68}Ge decay, is eluted from the column by 0.1 M HCl.

PRODUCT SPECIFICATION

- Ga-68 – yield in **5ml** of eluent is not less than **70%** at the first time of operation and not less than **45%** in **3** years or after **400** elutions.
- The breakthrough of Ge-68 is not more than **0.005%**.
- The Ga-68– generator is produced with a nominal activity of Ge-68 – **10 mCi (370 MBq), 20 mCi (740 Mbq), 30 mCi (1110 MBq), 40 mCi (1480 MBq), 50 mCi (1850 MBq) and 100 mCi (3700 MBq).**
- The admissible deviation from nominal activity ranges from **0 to +10%**.
- **Dimensions of the generator:**
Ø – 90 mm, h – 188 mm, G/weight – 11.7 kg



The generator is certified in the system of certification of equipment, products and technologies for nuclear installations, radiation sources and storage (OIT-certification system).

KEY ADVANTAGES:



Experienced production facility (Cyclotron Co., Ltd)



Worldwide logistics



Wide fleet of certified containers

For pricing and availability please inquire

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