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

**KEY ADVANTAGES:**

- Experienced production facility (Cyclotron Co., Ltd)
- Worldwide logistics
- Wide fleet of certified containers

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

For pricing and availability please inquire