

SynChrom Ga68

PET automatic synthesis unit for Ge-68/Ga-68 labelling



Applications

PET synthesis of: Ga-68-DOTATOC

General description

SynChrom Ga68 is using an automatic process unit for labelling with activity eluted from the generator of Ge-68/Ga-68.

The **SynChrom Ga68** unit is equipped with an electrical heater for a reaction temperature between +20 and +180 degree Celsius.

The unit is equipped with very fast, low dead volume, solvent resistant and pressure tight (4 bar) magnetic flipper valves.

All solvents are transported directly into the reaction vessel without any solvent crosscontamination.

The built-in pressure sensor continuously displays the actual system (reactor) pressure. This pressure sensor is also used for automatic gas leakage test after the synthesis unit cleaning procedure. During the process this sensor also observes the process for unexpected "accidents" with selectable warning and shutdown levels.

The reactor is equipped with a special reactor solvent mixing system without magnetic stirrer and replaces the tube lifting system.

The built-in double membrane, high performance, solvent resistant vacuum pump (40 mbar) allows fast drying of the solvent.

Features

- on-line process display
- interactive process control
- fully automatic
- manual intervention
- very compact

Ordering information

- 30000040** **SynChrom Ga68**
automatic labelling unit
- 30000003** SynChrom
Installation and training
5 days on site



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Positron-Emission-Tomography

Continued Description

Shielded cartridge position (e.g. Ga-68 trap, C-18).
All components and material are solvent resistant.
Product vessel with magnetic stirrer and radioactivity detector.

Real time display and recording of all measurement values of the process control.

Automatic calculation of trapping efficiency and yield.

Technical data

number of valves:	12
liquid nitrogen cooling Dewar:	1l
liquid sensor:	IR
solvent container:	5 ml
product vessel:	20 ml
product mixing:	magnetic stirrer
radioactivity sensors:	5
reactor pressure sensor:	1
vaccuum pump:	40 mbar solvent resistant
overall dimension:	520 mm wide 490 mm deep 500 mm high
weight:	36 kg
power:	115 – 230 V 200 W
humidity:	max 70% relative
temperature:	10 – 40 degree C
required gases:	compressed air,10 bar He, 2 bar

raytest Isotopenmessgeräte GmbH
Benzstrasse 4

75334 Straubenhardt · Germany
Phone +49 7082 9255-0 · Fax +49 7082 9255-4444
www.raytest.com

