

miniAllinOne synthesizer

Trasis miniAllinOne synthesizer is a reliable and compact synthesis platform designed for the automated preparation of diagnostic and therapeutical radiotracers. Part of the AllinOne family, the miniAllinOne synthesizer includes the same advanced technologies as the AllinOne synthesizers in a reduced format.

Application

miniAllinOne is a suitable solution for hospitals and for research centers interested in the labelling and purification of radio-metals.

This synthesizer allows the production of radio-tracers labelled with ^{68}Ga , ^{177}Lu , $^{99\text{m}}\text{Tc}$, ^{89}Zr , ^{64}Cu , ^{67}Cu , ^{90}Y , ^{186}Re , ^{188}Re , ^{203}Pb , among others, all on the same instrument. At the same time, it allows researchers to easily address emerging diagnostics and therapeutic procedures, exemplified by the increasing interest in theranostic.

miniAllinOne meets the needs of nuclear medicine departments, research centers, radiopharmaceutical production facilities and pharmaceutical companies.

Key features

- High and reproducible yields for all low-molecular weight molecules with tested processes
- Plug and play operation
- Very small footprint
- Compatibility with all ^{68}Ge and ^{68}Ga generator brands for ^{68}Ga -labelling

Description

The miniAllinOne synthesizer is a cassette-based platform. Reagents are provided separately. Cassettes and reagents are supplied fully assembled and ready for use in individually sealed pouches.

The synthesizer is operated via a user interface. For production purposes, the software is locked and allows a very user-friendly operation. When used in research activities, the interface is fully open and includes flexible research-oriented features.

Upgrades

miniAllinOne is upgradable to a different configuration model from the AllinOne family. If the needs of the customer evolve, the miniAllinOne can be exchanged with any AllinOne model allowing more complex processes.

Automated and simplified processes

All processes have been designed to simplify the operations, minimize human intervention and thus reduce the risk of errors.



Image 1 : miniAllinOne synthesizer

Reagents are delivered in ready-to-use vials which only need to be plugged on the cassette following the SOP (standard operating procedure) printed onto it. The following processes are automated:

- cartridge conditioning
- dissolving of lyophilized precursors
- synthesis phases
- purification
- final formulation
- extensive rinsing at the end of the synthesis

The extensive rinsing of the cassette and of the equipment performed automatically at the end of each synthesis safely drains away any remaining activity and makes the unit quickly ready for the next run.

Compatibility with generators

miniAllinOne is compatible with the any brand of generator commercially available. It has been tested on existing commercial generators with similar yields: IRE Elit, Eckert & Ziegler, iThemba, ITG, Pars Isotopes, Obninsk.