

Synthra MChelate (Catalog No. 013)

Synthra MChelate is a completely automated synthesis system for routine production of radiometal tracer. With the easy-to-use configuration software SynthraView it is simple to automate the synthesis. The Synthra MChelate module offers both fully automatic and manual modes of operation.

Labeling Possibilities

- ✓ **Radiometal tracer:** A range of radiometal ions can be reacted with peptides or other ligands to produce a variety of tracers, such as [^{68}Ga]-DOTATOC or [^{68}Ga]-DOTATATE
 - Flexible radiometal input either from a generator or a cyclotron target, depending on the selected radionuclide and its synthesis route
 - Reaction vessel with heating capabilities with continuous temperature and pressure monitoring and data recording for enhanced process control
 - Versatile cartridge-based purification allowing product-specific adaptations
- ✓ The optional F18 configuration extends the module's capabilities to synthesize [^{18}F]-labeled compounds like [^{18}F]-FDG or [^{18}F]-NaF. (Catalog No. 013f)



General Features

- ✓ **Heating and cooling capabilities**
 - One heating zone with cooling capabilities
 - Temperature range: RT – 100 °C
- ✓ **Detectors and controllers**
 - Three shielded radiation detectors
 - One pressure sensor
- ✓ **Build-in vacuum pump** (< 280 mbar)
- ✓ **Dispensers and valves**
 - HR-dispenser (up to 24.000 steps, 5 mL)
 - Chemically inert valves with small dead volume < 40 μL , 5 bar rated
- ✓ **Dimensions** (w x d x h): 31 x 37 x 43 cm
- ✓ **Weight:** approx. 20 kg

Synthesis Features

- ✓ **Six reagent vials**
 - Three small (1 – 3 mL) and three large (10 – 15 mL) volume glass vials for reagents
- ✓ **Four cartridge holders**
- ✓ **SPE unit** for final product formulation

Additional Synthesis Options

- ➔ **[^{18}F] option** with [^{18}O]water recovery system (Catalog No. 013f)

GMP Features

- ✓ Synthesis files for various radiotracers available
- ✓ **GMP compliant.** Electronic control and data collection (27/18 channels)
- ✓ **21CFRpart11** & **LIMS** compatible

Synthra Various Radiosynthesizers

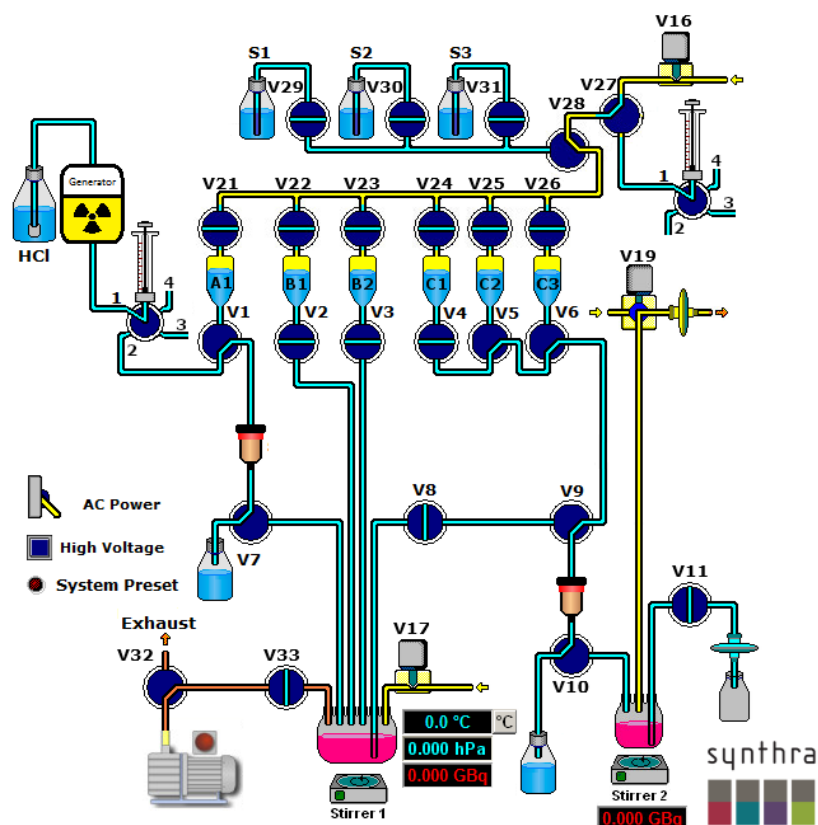
Product Description and Technical Specifications

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Terminal Control

- ✓ A laptop (Win 11 Pro) with preinstalled controlling software SynthraView is included
- ✓ Four digital inputs for communication with external devices upon request



The Graphical User Interface (GUI) of the SynthraView software.