



RADIO  
PHARMA  
SOLUTIONS

ORA

# NEPTIS<sup>®</sup> Perform

The Standard for Advanced Tracers



NEPTIS® Perform is an innovative synthesizer designed to produce the widest range of [<sup>18</sup>F] fluoride-based radiotracers via nucleophilic synthesis, requiring HPLC purification. It turns complex chemistry into routine production while ensuring consistent, high-quality tracers every day.

## HPLC PURIFICATION ON BOARD

NEPTIS® Perform integrates a dedicated HPLC drawer, UV detection, and solid-phase extraction, orchestrated by the NEPTIS® Control software. Injection, separation, and clean-up occur in a single validated sequence, simplifying the production and ensuring clean doses are ready on schedule.

## SCALABLE AND ADAPTABLE

The module is designed to evolve with production needs and the radiotracer landscape. It enables the integration of new tracers as they enter the market.

Add capabilities as you grow, from HPLC column selection to a quaternary pump, additional detectors, or a second reactor oven, including FDG dual-run options.

## ROBUST DESIGN

NEPTIS® Perform is equipped with the WNE® technology, a three-position pneumatic actuator system that provides precise and repeatable control of all in-cell operations. To protect radiation-sensitive electronics, the CPU is installed outside the hot cell. These design choices reduce failure points and maximize system uptime.

## NON-PROPRIETARY CONSUMABLES

The use of non-proprietary commercial consumables ensures flexibility and cost efficiency compared to proprietary systems. Manifolds are available in polysulfone or polypropylene, compatible with demanding solvents such as dimethyl sulfoxide and dimethylformamide.

## SPE (REFORM) PURIFICATION

NEPTIS® Perform includes a solid phase extraction reformulation module with five built-in actuators for precise handling. A dedicated waste pathway and independent high-flow, low-flow and vacuum supply ensure safe and controlled purification.

## GMP COMPLIANCE

ORA is ISO13485 certified since 2014. NEPTIS® documentation meets strict GMP regulations and requirements. The software is 21CFR Part 11 compliant and all NEPTIS® products follow and apply GAMP5 guidelines.

## AVAILABLE RADIOTRACERS (non-exhaustive)

| [ <sup>18</sup> F] Compounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Diagnostic                                                                                                                     | Therapeutics                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <sup>18</sup> F]FDG<br><sup>18</sup> F]NaF<br><sup>18</sup> F]FLT<br><sup>18</sup> F]FMISO<br><sup>18</sup> F]FHBG<br><sup>18</sup> F]F-Acetate<br><sup>18</sup> F]F-Choline<br><sup>18</sup> F]FET<br><sup>18</sup> F]FES<br><sup>18</sup> F]PSMA-1007<br><sup>18</sup> F]SFB<br><sup>18</sup> F]FDGal<br><sup>18</sup> F]F-L-DOPA<br><sup>18</sup> F]MPPF<br><br>Advanced tracers (Alzheimer...)<br><br>Specific process capability:<br><sup>18</sup> F]Fallypride<br><sup>18</sup> F]Faza | <sup>68</sup> Ga]Ga-DOTA-NOC<br><sup>68</sup> Ga]Ga-DOTA-TATE<br><sup>68</sup> Ga]Ga-DOTA-TOC<br><sup>68</sup> Ga]Ga-HBED-PSMA | Specific process capability:<br><sup>177</sup> Lu]-coumpounds |

## ON-THE-GO DEVELOPMENT

The synthesizer is delivered with a complete software suite:

- NEPTIS® Control provides real-time visualization of synthesis data.
- NEPTIS® Designer is a stand-alone software for molecule development or modification.
- NEPTIS® Trending supports production data analysis and key parameter monitoring (e.g. calibration, maintenance logs).

## HPLC CAPABILITY

- HPLC drawer ready for HPLC connection
- 1 HPLC injection valve
- HPLC pathways
- 1 rad detector (sensitivity < 2mCi)

## UV/PUMP

- MWD UV detector with optical fibers (to protect electronics from radiation)
- HPLC isocratic pump fully controlled by NEPTIS® software (optional: quaternary HPLC pump)

## SPECIFICATIONS

- 4 ramps of 5 pneumatic actuators (3 positions each)
- 5 rad detectors (+1 optional)
- 1 UV signal
- 3 syringe drivers (30 ml and 10/3 ml)
- 1 reactor oven (+1 optional)
- Sensors for vacuum, flow and pressure

## REQUIREMENTS

- Power supply: 100/240V AC, 50-60 Hz
- Compressed air: 6 to 8 bars
- Nitrogen: 3 to 8 bars

## DIMENSIONS

560 x 420 x 400 mm | 22.0 x 16.5 x 15.7 in (w x h x d)

38 kg | 84 lbs