

# Modular-Lab PharmTracer

For [ $^{18}\text{F}$ ]NaF, [ $^{11}\text{C}$ ]Choline, [ $^{11}\text{C}$ ]Methionine & Vial Dispensing



Modular-Lab PharmTracer is the clinical production solution for vial dispensing or labelling of [ $^{18}\text{F}$ ]Sodium Fluoride, [ $^{11}\text{C}$ ]methionine and [ $^{11}\text{C}$ ]choline from [ $^{11}\text{C}$ ]methyl iodide.

## ■ Description

The laboratory equipment Modular-Lab PharmTracer has been specifically designed to allow versatile radiopharmaceutical routine production for different tracers without cross contamination issues under GMP conditions. Modular-Lab PharmTracer setup for vial dispensing (up to 4 vials) or labelling of [ $^{18}\text{F}$ ]NaF, [ $^{11}\text{C}$ ]choline and [ $^{11}\text{C}$ ]methionine from [ $^{11}\text{C}$ ]methyl iodide consists of a Syringe Module (SYM) and a 2-fold Modular-Lab PharmTracer Module (SLM-2). Single-use sterile cassettes ensure easy

handling by click'n'run technology. An easy-to-program intuitive graphical interface is used to control the synthesis process.

## ■ Single-use sterile cassettes

Cassettes are assembled under GMP-compliant clean room conditions, sterilized with gamma-radiation and vacuum-packed. All consumables used are chemical resistant and have been tested for their suitability with the specific syntheses. A shelf life of 12 months can be guaranteed. All cartridges are included and preconditioned automatically if necessary. Due to the cassettes one-time use no cleaning, drying or sanitation routines are necessary.

## ■ Advantages

Modular-Lab PharmTracer is based on a unique, modular approach combining the speed and safety of a remote, fully-automated system with the option to configure synthe-

ses for novel PET tracers. The GMP-manufactured single-use sterile cassettes avoid intense cleaning and sanitation routines. Synthesis process is programmed by Eckert & Ziegler Eurotope making additional programming unnecessary. Modular-Lab PharmTracer's multifunctionality supports routine production of [ $^{18}\text{F}$ ]NaF, [ $^{11}\text{C}$ ]choline and [ $^{11}\text{C}$ ]methionine from [ $^{11}\text{C}$ ]methyl iodide.

The intuitive user interface complies with GMP, cGMP, GLP and GAMP 5 requirements. Parameters such as temperature, activity detector readings, flow rates, or valve settings can be monitored easily in one window. Reports containing all relevant data and information are created automatically after each run.



**Eckert & Ziegler**  
Eurotope

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## ■ Technical Data

<b>Module Characteristics</b>	
Dimensions (W x D x H) of the system	130 x 130 x 390 mm
2-fold Modular-Lab PharmTracer Module (SLM-2)	dimensions: 130 x 167 x 191 mm
Syringe Dispensing Module (SYM)	dimensions: 130 x 130 x 234 mm responsible for liquid transport
Optional: 1-fold Modular-Lab PharmTracer Module (SLM-1)	dimensions: 130 x 130 x 78 mm only necessary if dispensing of more than 4 vials is requested (dispensing of up to 7 vials possible)
Pressure	max. 2 bar
<b>Main Unit</b>	
Power supply (electrical cabinet)	115 V ~ 60 Hz or 230 V ~ 50 Hz
Power consumption (electrical cabinet)	standard 480W, 2 x bus 1050W, extension to 2100W possible
Environment temperature	+10°C – +40°C
Environment humidity	max. 70% rel.
<b>Unit Control</b>	
Software	Modular-Lab Software (cGMP, GAMP 5, 21 CFR part 11 compliant)
Interfaces	Ethernet

Before delivery all components are being tested and validated in-house. If requested, a performance qualification of the complete system will be provided on-site. Extensive documentation will be generally provided with the delivery of the system.

### **Eckert & Ziegler Eurotope GmbH**

Robert-Rössle-Strasse 10  
13125 Berlin  
Germany  
[www.eurotope.com](http://www.eurotope.com)

Phone: +49 (0) 30 94 10 84-197  
Fax: +49 (0) 30 94 10 84-470  
E-Mail: [eurotope@ezag.de](mailto:eurotope@ezag.de)

USA & Canada:

### **Eckert & Ziegler Eurotope GmbH**

63 South Street, Suite #140  
Hopkinton, MA 01748  
USA  
[www.eurotope.com](http://www.eurotope.com)

Phone: +1 508 497 0060  
Fax: +1 508 497 0061  
E-Mail: [eurotope@ezag.com](mailto:eurotope@ezag.com)