

Modular-Lab PharmTracer

Product Family & Cassette Diversity

■ Modules of the Modular-Lab PharmTracer family

The Modular-Lab PharmTracer product family consists of 4 different module sizes offering the possibility to produce less complex as well as very complex radiopharmaceuticals in a GMP-compliant environment. With one setup you can easily label different radionuclides without having cross contamination issues by easily replacing the single-use, sterile cassettes. This makes the Modular-Lab PharmTracer family the ideal equipment for your routine clinical production. Transfer of all liquids is performed by a Syringe Module (SYM).

All presented modules can be combined with each other and with modules from the Modular-Lab family. It is also possible to run less complex syntheses on a bigger setup due to the cassettes' adaptability.

The below mentioned applications can be established on Modular-Lab PharmTracer or validation is already underway. Please contact us for the current status quo!



■ 6-fold Modular-Lab PharmTracer (SLM-6)

The 6-fold Modular-Lab PharmTracer (for 6 manifolds of 3 stopcocks each) was developed for labelling ^{18}F -based tracers, i.e. $[^{18}\text{F}]\text{FDG}$, $[^{18}\text{F}]\text{FET}$, $[^{18}\text{F}]\text{FLT}$, $[^{18}\text{F}]\text{MISO}$ and $[^{18}\text{F}]\text{FEC}$. Also ^{11}C -based tracers as $[^{11}\text{C}]\text{choline}$ and $[^{11}\text{C}]\text{methionine}$ can be produced via the "wet chemistry" $[^{11}\text{C}]\text{methyl iodide}$ approach on the same system.

Dimensions: 394 x 198 x 191 mm

■ 4-fold Modular-Lab PharmTracer (SLM-4)

The 4-fold Modular-Lab PharmTracer (for 4 manifolds of 3 stopcocks each) is especially used for labelling less complex PET tracers and radiotherapeutics. The list comprises the following radiopharmaceuticals and applications: $[^{68}\text{Ga}]$ peptides, $[^{111}\text{In}]$ peptides, $[^{177}\text{Lu}]$ peptides, $[^{90}\text{Y}]$ peptides, $[^{131}\text{I}]$ antibody, $[^{90}\text{Y}]$ antibody, $[^{64}\text{Cu}]\text{ATSM}$, $[^{11}\text{C}]\text{acetate}$ and $[^{11}\text{C}]\text{methyl iodide}$ "wet chemistry" approach.

Dimensions: 262 x 198 x 191 mm



■ 2-fold Modular-Lab PharmTracer (SLM-2)

The 2-fold Modular-Lab PharmTracer (for 2 manifolds of 3 stopcocks each) allows the production of radiopharmaceuticals, like $[^{18}\text{F}]\text{NaF}$, $[^{11}\text{C}]\text{choline}$ and $[^{11}\text{C}]\text{methionine}$ from $[^{11}\text{C}]\text{methyl iodide}$. It can also be used for dispensing.

Dimensions: 130 x 167 x 191 mm

■ 1-fold Modular-Lab PharmTracer (SLM-1)

The 1-fold Modular-Lab PharmTracer (for 1 manifold with 3 stopcocks) can be used in combination with the above mentioned modules. It is especially useful for pressure tests of the cassettes and the elution of a $^{68}\text{Ge}/^{68}\text{Ga}$ generator.

Dimensions: 130 x 130 x 78 mm



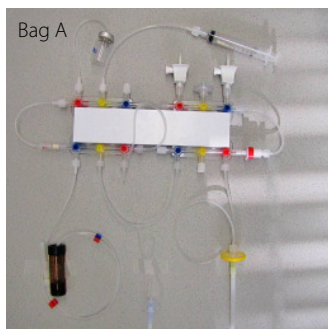
Modular-Lab PharmTracer

■ One-Way 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. Due to the cassettes one-time use no reconditioning and cleaning or sanitation routines are necessary.

A vacuum-packed cassette unit consists of 3 parts:

- Bag A with sterile cassette
- Bag B with sterile vials
- Bag C with sterile accessories (syringes, needles, etc.)



Sterile cassettes are available for the following applications:

- Cassette for elution of $^{68}\text{Ge}/^{68}\text{Ga}$ generator (non sterile) - Article No. C1-EL-00
- Cassette for pressure test (non sterile) - Article No. C1-PR-00
- Cassette for Syringe Dispensing System – Article No. C2-DISP-SYR, C3-DISP-SYR
- Cassette for ^{68}Ga (pre-purification method) - Article No. C4-GA68-PP
- Cassette for ^{68}Ga (fractionation method) - Article No. C4-GA68-FR
- Cassette for ^{90}Y - Article No. C4-Y90-00
- Cassette for ^{111}In - Article No. C4-In111-00
- Cassette for ^{177}Lu - Article No. C4-Lu177-00
- Cassette for $[^{18}\text{F}]\text{FDG}$ - Article No. C6-FDG-00
- Customized cassettes

The list will be extended regularly for more applications, where validation is currently underway.

Cassettes can also be designed and assembled according to customers' specifications and needs, i.e. proprietary tracers. Eckert & Ziegler Eurotope is able to provide process optimization services for customized tracers and radiotherapeutics.

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