

KitLab

Fully automated and user-friendly stand-alone device for safe processing of shake'n'bake and other PET and SPECT kits.



Background

The growing availability of ready to use shake'n'bake kits on the market increases the potential of manual handling errors and the risk of high radiation exposure to the operator. With the KitLab, Eckert & Ziegler Eurotope GmbH offers an automated solution to improve the reproducibility of results and to prevent users of unnecessary exposure.

Improve your workflow

KitLab combines fast user setup, easy handling and elimination of operating errors; therefore allowing more time to stay focussed on other work. The use of defined tools for each kit and the reproducible process make KitLab very reliable.

Functionality

After connecting KitLab to the standard socket outlet, putting the RFID card in place and inserting the cassette, it is ready for use. For the transport of liquids KitLab uses the established and well proven peristaltic pump with four independently programmable channels. In addition to performing automated handling of registered kits the device offers the possibility to start a program with time-pre-selection to allow pre-elution at a scheduled date and time.

Easy data management and storage

The cassettes are delivered with an RFID card that contains important information for the batch report. All data will be gathered via RFID card reader and the optional barcode scanner and stored on the device itself. The data will be combined in one batch report which can be directly printed with the optional printer. To secure GMP-compliant data storage, after synthesis all data is stored on the internal SD memory card and written on the cassette-specific RFID card. All batch data can be accessed at any time.

Small, sterile and double packed cassettes

The cassettes are assembled under GMP compliant clean room conditions and sterilized with gamma-radiation. They come with needle free connections and V-vials to minimize residues. Color coding between vials and spikes prevents incorrect use and facilitates the preparation process. The cassettes are delivered with all further necessary consumables.

Features at a glance

- User-friendly application selection via RFID card
- Stand-alone device; no PC or EC needed
- Very small footprint
- Radiation protection - reduction of radiation exposure for the operator; optional remote control (ALARA)
- Handling according registration guidelines, IFU, SmPC
- Automated and sterile QC sampling
- Pre-elution function
- Automated/controlled elution of generator
- Recording/calculation of remaining generator activity
- Easy and fail-free insertion of cassette

Adaptable and upgradeable for future use

The KitLab was designed for synthesis of ^{68}Ga -HBED-PSMA and comes with all the technical requirements for future upgrades, thus making it very adaptable for further applications such as new kits, dispensing or multi-generator use.

Customizable setup

The programming of KitLab is done by Eckert & Ziegler. If you wish to customize your device with a special application get in touch using the contact details overleaf.

System is patent pending.

Technical features

Dimensions (W x D x H)	170 x 280 x 270 mm
incl. holder plate & power adapter	340 x 280 x 270 mm
Weight	3,5 kg
Power supply	Power supply unit 230V / 110V
Data storage	SD-card
Cassette	CP-GAPSMA11

Optional components

KitLab comes with a large number of optional components to facilitate your daily routine production with kits.

Printer	connected via RS232 port, label size 50 x 100 mm
Barcode scanner	connected via RS232 port, QR code legible
Activity shielding containers	15 mm lead, different inserts for various vials
Heater	
Remote control	
Pre-elution cassette	