

### KitLab\*

Fully automated and user-friendly stand-alone device for safe processing of shake'n'bake and other PET 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 system, Eckert & Ziegler Eurotope GmbH offers an automated solution to improve the reproducibility of results, to protect users from unnecessary exposure and to facilitate synthesis and formulation.

### Improve your workflow

The KitLab system combines fast user setup, easy handling and reduction of operating errors; therefore allowing a more efficient work schedule. The use of defined tools for each kit and the reproducible process make the KitLab system very reliable.

### Functionality

After connecting the KitLab device to the standard socket outlet, putting the RFID card in place and inserting the cassette, the system 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 delay function to allow an automatic 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 the RFID card reader and the optional barcode scanner and stored on the device itself. The data is combined in one batch report which can be directly printed with the optional label printer. To secure GMP-compliant data storage, batch data are subsequently stored on the internal SD card and additionally 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 to the operator; optional remote control (ALARA)
- Handling according to registration guidelines, IFU, SmPC
- Automated, sterile QC sampling and sterile filtration (optional)
- 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 system was initially developed for a synthesis with <sup>68</sup>Ga-HBED-PSMA including pre- and post-purification steps. The system is upgradeable for licensed kits, e.g. with a novel heater module.

### Customizable setup

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

\*patent pending

## Technical features

<b>Dimensions (W x D x H)</b>	170 x 280 x 270 mm
incl. holder plate & power adapter	340 x 280 x 270 mm
<b>Weight</b>	3.5 kg
<b>Power supply</b>	Power supply unit 230V / 110V
<b>Data storage</b>	SD card
<b>Cassette</b>	CP-GA-PSMA11

## Components

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

<b>Printer</b>	connected via RS232 port, adhesive label size 50 x 100 mm
<b>Barcode scanner</b>	connected via RS232 port, QR code legible
<b>Activity shielding containers</b>	15 mm lead, different inserts for various vials (tungsten shielding containers available upon request)
<b>Heater</b>	
<b>Remote control</b>	
<b>Pre-elution cassette</b>	

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