

# MIKROS

MICRO-DISPENSER FOR Lu-177 AND Ac-225



89 225

Ac

ACTINIUM

71 177

Lu

LUTETIUM



RADIOPHARMA



**COMECER**

AN **ATS** COMPANY

MIKROS is a dispensing system for carrier-free radioisotopes like  $^{225}\text{Ac}$  or  $^{177}\text{Lu}$  inside 2 ml conical DIN ISO 20 and 10 ml flat bottom DIN ISO 20 vials.

Using pipette tips for Tecan, MIKROS withdraws the radio fluid from a conical 10 ml vial and the HCl from a 20 ml vial. MIKROS is designed to be used in a pharmaceutical or similar environment with suitable management of cleaning activities and environmental parameters.

MIKROS is made of:

#### Barcode reader

The barcode reader is used to identify the empty vial before it is moved to the vial transfer system by the telemanipulator.

#### Dispensing unit

The unit consists of two TECAN modules that move horizontally and vertically by means of a motorised sledge. The unit fills vials by dispensing the radio fluid or the diluent with pipettes and can fill from 10  $\mu\text{l}$  up to 5000  $\mu\text{l}$ .

#### Crimping unit

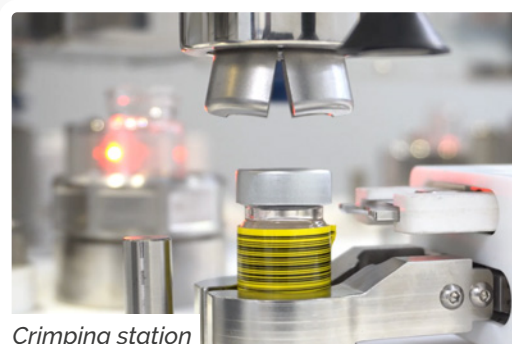
The unit consists of two stopper removal/positioning stations that move vertically by means of a motorised sledge. The stopper removal/positioning stations remove and position the stoppers.

#### Vial transfer system

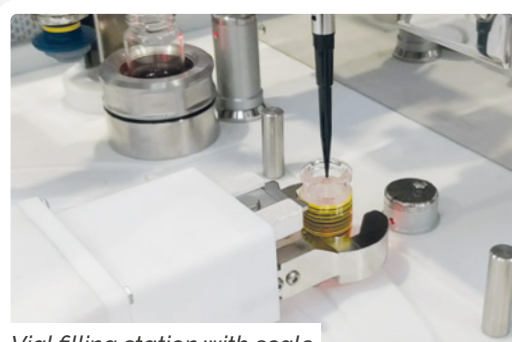
The unit consists of a mechanical arm fitted with a gripper that automatically moves the vials under the various stations. The unit is equipped with a drip tray to protect the module from any fluid leaks.

#### Scales

The unit has a load cell. The load cell enables the vials to be weighed.



Crimping station



Vial filling station with scale



Vial transfer system



**With  
integrated  
scale**



Dispensing unit



Barcode reader



## USER FRLIENDY HMI

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**Bulk Definition**

☒ Set Activity And Volume  
☐ Set Activity And RAC  
☐ Set Volume And RAC

	STANDARDIZED VOLUME	ACTIVITY	RAC
MEASURE TIME	1000.0 uL	5000.0 MBq	1000.0 MBq/L 09/03/2023 12:53
REFERENCE TIME	50000.0 MBq	5000.0 MBq/L	09/03/2023 13:53
CURRENT TIME	0.0 MBq	0.0 MBq/L	10/03/2023 06:45

**LAST MEASURED VIAL DATA**

RAC

0.0 MBq/L 01/01/1990 00:00

Tag: Lu277  
 ID: Lu277  
 Half Life: 60.00 min  
 RAC: 250.0MBq/L  
 Reference Time: 2023/03/09 12:53:00  
 Density: 1.0 g/cm  
 Expiry: 48 Hours/EO: 2023/03/09 12:53:00

NOT RUNNING - WAIT FOR VIAL TO FILLING

DELUTE BULK MIXING

BULK MIXING

BULK ELUENT VIAL

NOT LOADED

Activity: 0.0 uCi

PARK RIGHT TIP

100 uCi

[illegible][illegible]

## Technical Data

Frame material		Aluminium AW-6082 (Anticorodal 100)
Casing material		AISI 316L
Worktop material		Pom-C plastic
External dimensions (w x d x h)		820 x 500 x 725 mm
Weight		100 kg
Accuracy	10 µl	≤ ±10%, max ± 1 µl
	11 ÷ 200 µl	≤ ±5%, max ± 5 µl
	201 ÷ 1000 µl	≤ ±2%, max ± 5 µl
	1001 ÷ 2000 µl	≤ ±1%, max ± 10 µl
	2001 ÷ 5000 µl	≤ ±1%, max ± 20 µl



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