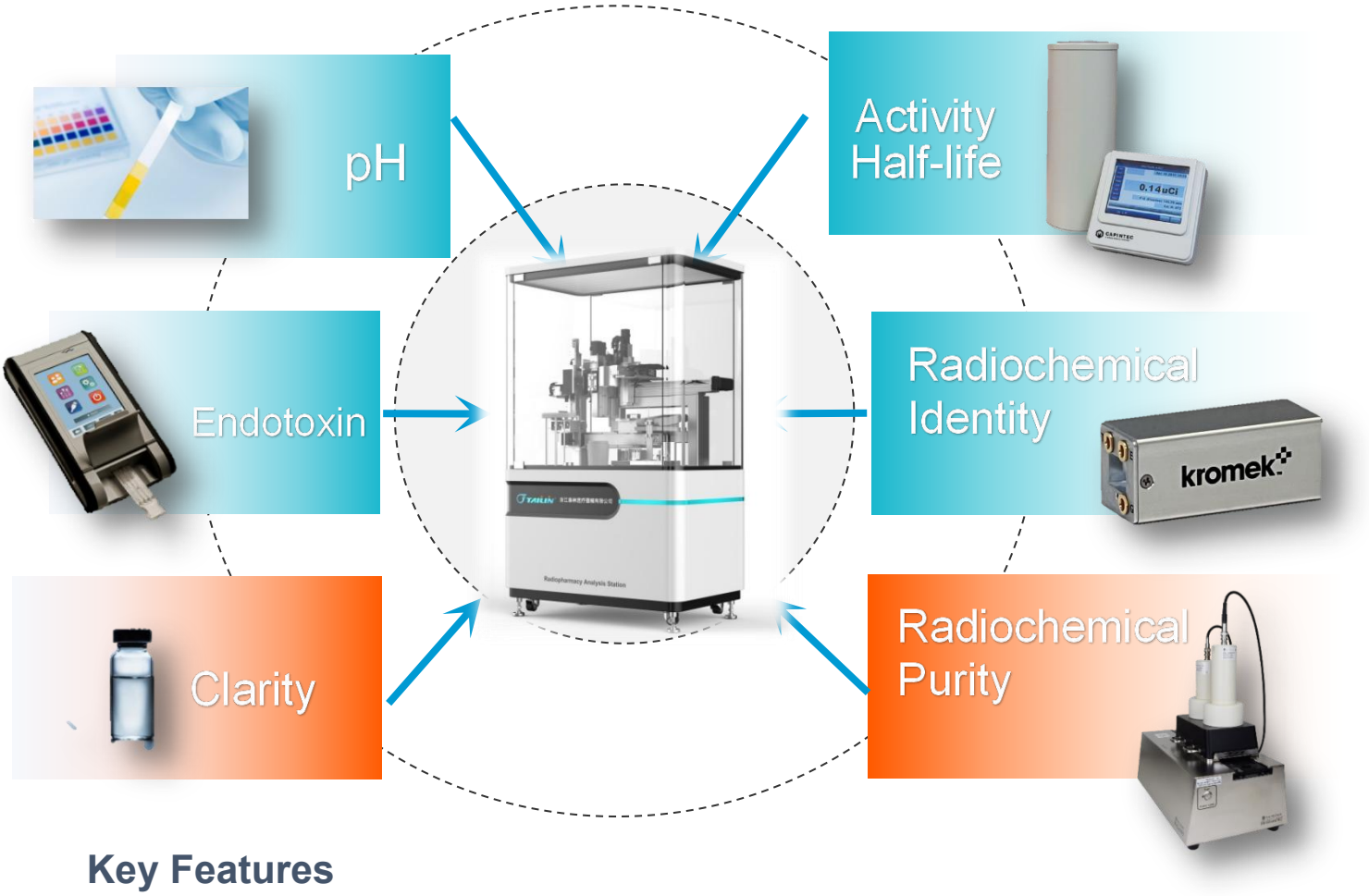
Radiopharmaceutical QC Analysis Station

ZHEJIANG TAILIN BIOENGINEERING CO., LTD

Quality Control Functions



Key Features

01 Compliance Testing Methods

Testing methods comply with the excerpts from Chapter 1401 of Chinese Pharmacopoeia.

02 Radiation Protection

Minimize radiation exposure of personnel during the testing process.

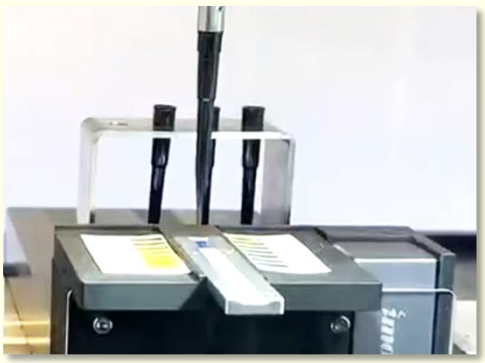
03 Low Mother Liquor Consumption

The amount of mother liquor used is no more than 1 ml.

Innovations

pH

- ✓ *High-precision sample dispensing*
- ✓ *High-precision camera imaging with fixed light source*
- ✓ *Interpretation by AI algorithms*
- ✓ *Enhanced data integrity*

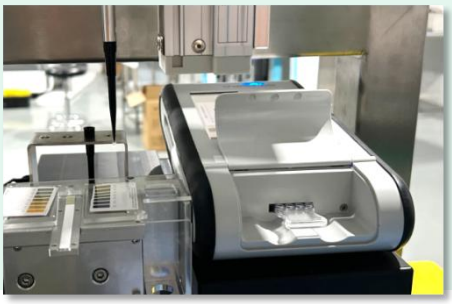


Chromatographic Development

- ✓ *Automatic sample spotting, plate development and detection*
- ✓ *Automatic development for stable development results*

Endotoxin Detection

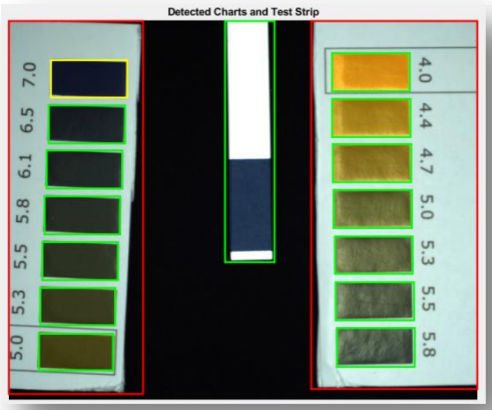
- ✓ *Dynamic chromogenic method*
- ✓ *Automatic sampling and dilution*
- ✓ *Mother liquor consumption as low as 5 μL*
- ✓ *Detection time: 15 - 20 minutes*

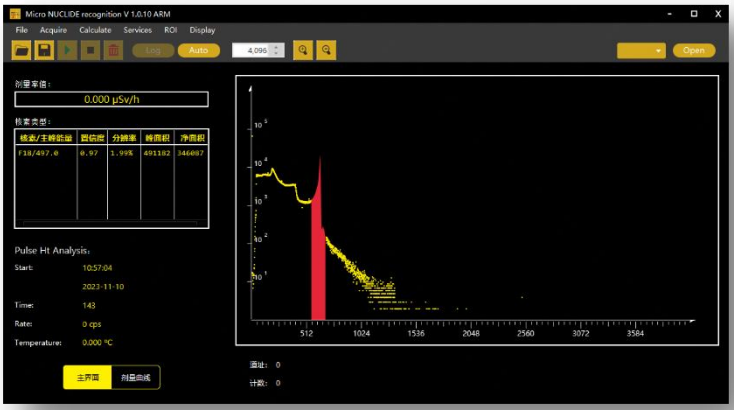


New Detection Material

- ✓ *Use of new material cadmium zinc telluride (CdZnTe)*
- ✓ *Energy resolution of 2%*
- ✓ *Operates at room temperature with a compact size*

Lab Results





Technical Specifications

Detectable Radionuclides	At least three kinds: ^{18}F, ^{68}Ga, ^{177}Lu	
Sample Requirement	≤ 1ml	
Test Items	pH	pH test paper
	Endotoxin	Dynamic chromogenic method
	Activity/Specific activity	Well-type ionization chamber
Liquid Distribution Function	Quality control equipment for liquid distribution	
Surface Radiation Dose of Equipment	< 2.5 μSv/h	
Lead Shielding Equivalent	10-30 mm	
Weight	< 1600kg	
Table Illuminance	1000 lx	
Power Supply	220V	
Power	2 kW	

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