

▶ URANUS AE 55

Software Control user-friendly

- Simple GUI (Graphical User Interface). Users are guided in a step-by-step produce to prepare the worktable, select their assays and start the run.
- Bidirectional interface allows the integration into a LIMS for transferring job lists and results.
- Customization of test item: In the same batch of samples to be tested, each sample can be customized with different test items.
- History log file and comprehensive QC program. analyzing data in and between plates, L-J QC charts, etc.

待检标本 (条码)	检测项目	实验示意图(96孔微板)
1	HbA1c	[Diagram]
2	HbA1c	[Diagram]
3	HbA1c	[Diagram]
4	HbA1c	[Diagram]
5	HbA1c	[Diagram]
6	HbA1c	[Diagram]
7	HbA1c	[Diagram]
8	HbA1c	[Diagram]
9	HbA1c	[Diagram]
10	HbA1c	[Diagram]
11	HbA1c	[Diagram]
12	HbA1c	[Diagram]
13	HbA1c	[Diagram]
14	HbA1c	[Diagram]
15	HbA1c	[Diagram]
16	HbA1c	[Diagram]

Innovative features of URANUSAE

- Microplate insertion function: the experimental microplate can be inserted at any time and at any step, and the results and the sample loading information are automatically associated.
- Microplate-pooling function: multiple test items in same testing procedures can be assigned simultaneously within the same plate.
- Gripper alarm function: gripper torque sensing function can automatically monitor the working status of the gripper. When the microplate or lid is not caught, it alarms automatically with a dialog box and sound and light alarm.



▶ Specifications

Model	URANUS AE 55				
Application	Automated ELISA testing, including sample distribution, reagents pipetting, shaking, incubating, washing, reading, and etc.				
Sample positions	96	Arms	1	Sampling channels	1
Disposable tips	Yes	Liquid level detection	Yes	Clot detection	Yes
Pipetting precision	Specification 1000µL	Pipetting volume 100µL 1000µL	Precision (CV%) ≤ 0.5% ≤ 0.3%	Accuracy ≤ 2.0% ≤ 0.5%	
Pipetting speed positions	Sample parallel distribution speed: ≤70 sec/96-well plate Reagent continuous distribution speed: ≤50sec/96-well plate.				
Microplate positions	2				
Barcode identification	Auto scanning of tubes and microplates, varied barcodes available. Scanning speed: 40 sec/96 tubes, 10 sec/96-well plate.				
Reagent module	Multiple reagent positions can be set flexibly, and specific reagent positions can be identified. automatically with Hall detection principle.				
Incubators/shakers	The microplate positions integrate incubating and shaking functions together. Each microplate has independent incubating and shaking function. Adjustable temperature ranges from room temperature to 60°C with precision ±0.4°C. Adjustable shaking time 0~240 mins with 20 level shaking frequency.				
Microplate washer	1 Each washer with 16 probes, 0~9 wash cycles, 2~8 wash buffers. Variable soak time dispensing volumes, and wash modes. Residual volume of wash buffer ≤ 1µL per well.				
Microplate reader	1 Wavelength range is 340~750nm with single or dual wavelength measurement. Light filter: 405nm, 450nm, 492nm and 630nm as standard configuration or customized. OD range is 0.000~4.000 with sensitivity 0.001, repeatability ±0.005OD, stability 0.005OD.				
Software	Graphical User Interface, available to connect to LIS/HIS system for bidirectional communication.				
Dimension	750x720x780mm				
Weight	80kg				
Environmental conditions	Temperature: 15~32°C Humidity: 30%~80%	Electric supply requirements	Voltage: 100~240VAC Frequency: 50/60HZ		

Ultrassay BioTech Co., Ltd.

- RM3018 Poly D9, No. 999 Luzhou Avenue, Baohe District, Hefei, Anhui, China
- +86-551-62881663
- info@ultrassay.com
- http://ultrassay.com



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URANUS AE 55

Automated ELISA System

Ultrassay BioTech Co., Ltd.

▶ URANUS AE 55



URANUS AE 55 is a dedicated system to automate microplate-based ELISA tests and deliver accurate results with high efficiency. Adopting the modular automation concept, URANUS AE 55 equips with liquid handling module, incubation module, plate washing module, microplate readers, flexible mechanical grippers to transfer microplates between modules, an intelligent software control.

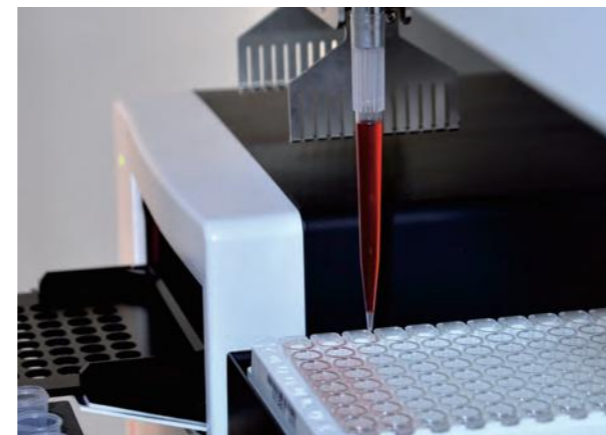
■ Standard Specifications

96	sample positions
1	working cabinet
1	arm
1	sampling probe
1	microplate positions
1	microplate washer
1	microplate reader



Liquid handling module / fast and precise pipetting

- Automating sample distribution, sample predilution, reagent pipetting etc.
- Use of high-quality disposable tips, zero carryover.
- Two specifications of disposable tips, 250 μ L and 1000 μ L, sample volume could be 5~1000 μ L.
- Parallel pipetting for rapid sample distribution in multiple plates.
- Using sensitive pressure-sensing clot detection and liquid level detection technology.



Incubation Module / accurate and stable temperature control

- The functions of pipetting, shaking and incubation are integrated together on the microplate position to improve processing speed.
- Independent incubator in each microplate position for flexible and reliable temperature control.
- Blanket-type heating method, only 1 minute to reach the setting temperature.
- Multi-point monitoring technology, ensures stable temperature.



Plate Washing Module / flexible and intelligent washing control

- 16 wash channels with 32 probes in total, the long probes for liquid absorbing and the short probes for liquid injection.
- Adjustable wash modes, soak time, dispensing volumes, and etc.
- Residual volume of wash buffer $\leq 1\mu$ L per well.
- Hanging washer head allows easy maintenance.



Microplate Reader / reliable interpretation

- Self-developed microplate reader.
- Wavelength range is 340~750nm with single or dual wavelength measurement.
- Automatic switching of multiple filters.
- Comprehensive measurement methods (qualitative, quantitative, rate method and kinetics) meet the needs of different applications, providing fast and accurate interpretation.

