

VEG-2000

Fully automated ELISA processor





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with Washer & Reader System



VEG-2000 Elisa Processors is fully automated Fourplate ELISA processing system, capable of sampling, incubation, washing and data processing. It is complete solution for your IVD ELISA assays. The system combines a high precision pipetting unit with stable incubators and efficiency washers and photometer unit.

VEG-2000 Modularity

- One X-Y-Z Intelligent mechanical arm.
- Maximum 552 sample positions.
- Maximum 46 reagent positions.
- All sample & reagent positions can be editable.
- Two pi petting probes, 1μL stepping, 1000μL
- Four units 96-well microplates.
- One modularized washer & reader units. (microplate washing, data reading all automatically)



Sample Module

- With hydrophobic membrane treatment precision probe and automated washing system, ensuring adding volume accurately and preventing cross contamination effectively.
- Sample&Reagent&Dilution rack module using the original sample tube and reagent bottles directly, preventing effectively cross contamination.
- Onboard large capacity and optional programmable dilution model.
- Mechanical module elaborately designed, stable performance, spare part supplied, easy to maintenance.







Washer

- 4 wash buffers at 2.0L, with level-sensing
- 10L with waste full sensor
- Two 8 nozzle manifolds, one to dispense and the other one to aspirate

Reader

- \bullet 8 independent photometric channels with mono and bichromatic reading capability \bullet Photometric Range 0.000–3.000 OD
- Wavelength Range 400-700nm
- Optical Filters 2 precision filters (450and 630nm);
 - 2 more on request (4 filters max, 405 nm, 450nm, 492nm and 630nm)

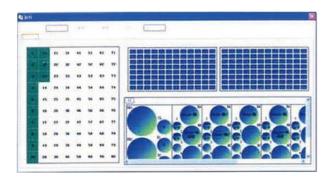


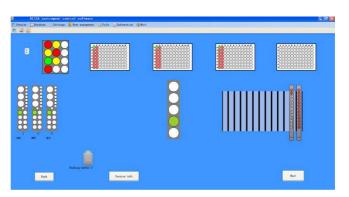


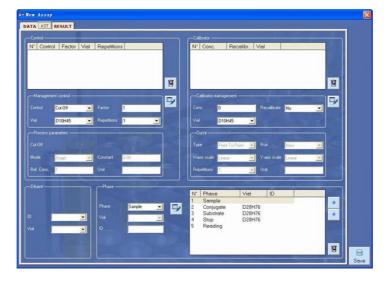


User-friendly Software

LIS system available (laboratory information system) Large data storage capacity. Professional service software monitor process on line status.











Testing Range

- ✓ TORCH SERIES Toxo, RV, CMV, HSV etc...
 ✓ HEPATITIS SERIES HAV, HBV, HCV, HDV, HEV etc...
 ✓ VENERAL SERIES HIV, TP, MP, CT, etc...
 ✓ THYROID AUTOIMMUNITY SERIES T3, T4, FT3, TSH etc...
- ✓ ENDOCRINE SERIES E2, E3, LH, FSH, HCG, Pro, PRL etc...
- ▼ TUMOR MARKER SERIES CEA, AFP, PSA, F-PSA, CAL 9-9, CAL 25, CA 15-30, CA 242.

TECHNICAL FEATURES		
Model	VEG-2000	
Sample pipetting unit	Sample positions	Maximum 552 positions (23 rack, 24 positions/rack)
	Primary sample tubes	11.5-13mm
	Pipetting	8ul~1000 μL, (10 μL) CV<5%
	Time to dispense	12 minutes adding 96 samples
	Dispensing system	1 aspirating-dispensing probe with X-Y-Z movement;
		dilution system with a syringe of 1000 µL,
		continuous flow washing station.
Reagent pipetting unit	Reagent racks	Maximum 46 positions (23 rack, 2 positions/rack)
	QC Position	24 positions/QC rack, at most 25 racks
	Pipetting	8~1000 μL,1 μL stepping,
	pipetting precision	(100 µL) CV≤0.5%
	Time to dispense	3 minutes adding 96 reagents.
Washing unit	Programmable	Yes(options & parameters)
	Wash containers	4 wash buffers at 2.0L, with level-sensing
	Waste containers	10L with waste full sensor
	Washing system	two 8 nozzle manifolds, one to dispense and the
		other one to aspirate;
	Washing residual	<2µL
Reading unit	Reading system	8 independent photometric channels with mono
		and bi-chromatic reading capability
	Photometric range	0.000 ~3.000 OD
	Spectral range	400-700nm
	Optical filters	2 precision filters (450and 630nm);
		2 more on request (4 filters max, 405, 450, 492 and 630 nm)
	Reading inaccuracy	Inaccuracy $\pm 1\%$ from 0.000 to 1.500 OD,
	,	±2% from 1.500 to 3.000 OD
Incubation unit	Incubators	4 independent units
	Programmable	Yes RT to 45 °C
	Temperature range	
	Temperature accuracy	±0.5°C
Software unit	Adjustment step size	±0.5°C
	Software system	Windows 7/8/10 or above, LIS system available
	Function application	work list set up, patient reports and result filing;
	Data reduction	calibration curve storage for each carried out test cut-off (qualitative)
Physical Specification	Data reduction Dimensions	1130 x 750 x 770mm (WxDxH)
	Power Supply	AC110/220V + 10%, 50/60Hz
	Weight	150kg
	Consumption	450W
		43UVV





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