ELISA / ELISA-IFA / ELISA-IFA-BLOT

AP22 / AP22 IF / AP22 IF BLOT ELITE

Independent ELISA incubators

Fast IFA Processor

Fully BLOT automation

AP22 ELITE is a full automated system for ELISA method. The instrument is able to manage 2 ELISA microplates with independent temperatures and shaking, 8 tests on line, sample and reagent dilution, dispense with different incubation times and washing modes up to the final ELISA reading and data processing.

AP22 IF ELITE is a full automated system for ELISA and IFA methods. In addition to all the AP22 ELITE features the instrument is able to run 16 IFA slides, sample dilution, sample and reagent dispense with independent incubation times and different washing modes. An optional system is also available for slide barcode reading.

AP22 IF BLOT ELITE is a full automated system for ELISA, IFA and BLOT methods. Thanks to a dedicated Blot Module and camera, added to all the AP22 IF ELITE features, it is able to carry out the full automation for 24 Dot/Western Blot strips starting from sample dilution, sample and reagent dispense, incubation, strip washing up to the dot imaging processing and assessment for each strip. The software allows to edit, store and record patient data and reports.

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APPLIED INNOVATION

AP22 / AP22 IF / AP22 IF BLOT ELITE

ELISA TECHNICAL FEATURES

Removable trays	modular racks to hold calibrators, controls and reagents for 8 test on line
Elisa dilution cups	110 positions
Microtiter plates	2 standard plates (12x8 well format) incubated from room temperature up to 45°C
Shaker	Microtiter plate shaking capability (optional)
Liquid handling	1 probe for dilution and dispense
Sample dispense time	11s with 2 ml of washing solution
Plate washing	two 8 nozzle manifolde, one to dispense and the other to aspirate; residual volume <3 µl
Wash buffers	2 wash buffers for microplates in external tanks with level sensors
Plate washing inaccuracy	< 5% with 300 µl
Reading system	8 indipendent photo-metric channels with mono and bicromathic reading capability
Interferential filters	2 precision filters (450nm and 630nm); 2 more on request (4 filters max, 400-700nm)
Reading capability	reading from 0.000 to 3.000 OD; inaccuracy ± 1% from 0.000 to 1.500 OD, ± 2% from 1.500 to 3.000 OD
Operating functions	management of 8 methods in the same run; definition of incubation times and volumes for sample and reagents dispense, different incubation times for each method; easy and fast settings for new protocols; worklist set up, patient reports and result filing; calibration curve storage for each carried out test.

IFA TECHNICAL FEATURES (AP22 IF ELITE and AP22 IF BLOT ELITE only)

Liquid handling	2 probes: one to dilute and dispense, the second for slide well washing
Average throughput	11s with 2 ml washing solution
Sample dispense time	30 minutes to dispense or wash 16 slides with 12 wells
Sample dilution time	15s with 2 ml of washing solution
Slide washing	10 test on line capability, trays with 220 dilution cups, tray for 16 IFA slides;
Washing modes	reagent tray for 18 controls, 9 conjugates, 1 cleaning solution for the probe and 2 diluents
Supplied trays	able to detect 150 µl
Wash Buffers	2 buffers for slide washing in external tanks with level sensors
Operating functions	each well is washed independently by: continuous flow, drop by drop or multiwell mode

BLOT TECHNICAL FEATURES (AP22 IF BLOT ELITE only)

Liquid handling	2 probes: one to dilute and dispense, the second for strip washing
Dispensation	up to 3000 µl
Reagent tray	10 tests on line capability: 10 x 110 ml reagent vials and 10 controls positions
Strip holders	3 trays (8 strip per tray) to run up to 24 strips
Strip washing	liquid dispende and aspirate run by two indipendent probes
Wash buffers	2 buffer tanks with level sensors for strip washing
Reading capability	high resolution color camera for imaging acquisition
Strip drying system	the heating considerably cut the waiting time for the reading (optional)

COMMON TECHNICAL FEATURES

Sample tray	91 sample tubes Ø 12 mm or 70 sample tubes Ø 16 mm; both can be used in the same run
Sample barcode reader	built-in sliding barcode reader
Dilution cuvettes	cup blocks with 22 wells each
Syringe	1000 µl volume, 1 µl step resolution
Dispensation	from 5 µl to 1000 µl by steps of 1 µl, inaccuracy ± 2% at 100 µl
External liquid tanks	WASH and WASTE tanks equipped with level sensors
Connection	LIS interface capability, work list import from Host computer; a single PC can run more instruments
PC specifications	Intel I5 processor; 4 GB RAM; VGA 1024x 768; HD with 100 GB free space; CD-ROM reader; USB 2.0 port; RS232 Serial Port
Operative systems	Windows 7 or Windows 10
Power requirements	230 or 115 VAC, 50-60Hz, 350W
Measurements	62 x 83 x 72h cm
Weight	85 KG

The shown features could be altered without notice

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