

APE/APE IF ELITE

4 independent ELISA plates
Automated Processor



4 ELISA plates and 20 IFA slides
Fast Automated Processor



APE ELITE is a powerful and flexible ELISA processor able to manage 10 methods on line with 4 microplates at different temperatures and separated shaking devices. Automatic reading and management of sample and reagent barcodes. Its user friendly approach for both software and hardware allows the operator to start working with the instrument as soon as it is out of the box, no pre-adjustments or calibrations are required.

APE IF ELITE is a powerful and flexible ELISA and IFA automated processor of DAS. The instrument is able to manage 10 methods on line with 4 ELISA microplates at different temperatures; a three needle system allows fast processing on 20 IFA slides. Contemporary processing of ELISA and IFA methods. Automatic reading and management of sample and reagent barcodes. Separated ELISA microplate shakers. Dilution, dispense, incubation, washing, reading and data processing parameters are settable by the user.



APE/APE IF ELITE

ELISA TECHNICAL FEATURES

Liquid handling	2 probes for dilution and dispense of samples and reagents
Sample dispense time	6s (average) with 2ml of washing solution
Sample dilution time	15s with 2 ml of washing solution
Plate Washing	two 8 nozzles manifolds for separate execution of aspiration and dispense steps, residual volume <3ul
Plate washing inaccuracy	CV < 5% at 300ul
Supplied trays	custom fixed or sliding (RR configurations) sample and reagent racks
Microplates handling	4 plates (12x8 well format); dedicated incubation from room temperature to 45°C; 2 separated shakers
Wash Buffers	4 wash buffers for microplates in dedicated tanks with level sensor
Reading system	8 independent photometric channels with monochromatic and bichromatic reading capability
Interferential filters	2 filters (450nm and 630nm); 2 more on request for a maximum of 4 filters (400-700nm)
Photometer	reading from 0.000 to 3.000 OD; inaccuracy \pm 2%
Operating functions	management of 10 methods in the same run; definition of incubation times and volumes for sample and reagent dispense, different incubation times for each method; easy and fast settings of new protocols; worklist set up, patient reports and result archive; calibration curve storage for each carried out test.

IFA TECHNICAL FEATURES

Liquid handling	3 probes: two for dilution and dispense of samples and reagents, one dedicated for IFA wells washing
Average throughput	320 wells in a run with incubation times of 30+30 minutes
Sample dispense time	6s (average) with 2ml of washing solution
Sample dilution time	15s with 2 ml of washing solution
Slide washing	wells are washed one by one to avoid carry over
Washing modes	multi-well, continuous flow or drop by drop for specific washing effectiveness
Supplied trays	16 or 20 positions for IFA slides, custom fixed or sliding (RR configurations) sample and reagent racks
Wash Buffers	2 wash buffers in dedicated tanks with level sensor
Operating functions	management of 10 methods in the same run; definition of incubation times and volumes for sample and reagent dispense. Different incubation times for each method; easy and fast settings of new protocols. Slide layout design; setting of slide mask, thickness, number, shape, size and position of wells.

COMMON TECHNICAL FEATURES

Built-in barcode readers	for samples; for samples and reagents in RR configurations; for 1D and 2D slide barcodes
Sample trays	13 custom racks for 169 tubes Ø13mm or 130 Ø16mm; variable number of positions in RR configurations
Dilutions	264 or 440 (RR configurations) dilution cups
Dispense	CV <1%, inaccuracy 1% at 100 ul
Aspiration	CV <1%, inaccuracy 1% at 100 ul; minimum volume 5ul, 1ul resolution
Syringes	2 syringes of 1000ul volume each, 1 ul resolution
Working solutions	integrated holder for tanks with level sensor; waste in separated tank or direct wall connection
Connection	LIS interface capability, worklist import from Host; single PC can run more instrument at the same time
PC specifications	Intel I5 processor; 4GB RAM; VGA1024x768; HD100GB free space; CD reader, USB2.0; RS232 serial port
Operative systems	Windows 7 or Windows 10
Power requirements	230 or 115 VAC, 50-60 Hz, 650 VA
Measurements	113x77x88h
Weight	135Kg

The shown features could be altered without notice

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