

APE/APE IF ELITE

Automated processor
4 ELISA plates
20 IFA slides



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	two probes for dilution and dispense of samples and reagents
Plate Washing	two 8-nozzle manifolds for separate execution of aspiration and dispense steps, residual volume < 3ul
Plate washing inaccuracy	CV < 5% at 300ul
Supplied trays	custom reagent and sample racks
Microplates handling	four 96-well plates at different work temperature from RT to 45°C; 2 or 4 separated shaking devices
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	two filters (450nm and 630nm); two more on request for a maximum of four filters in the range 400-700nm
Photometer	reading from 0.000 to 3.000 OD; accuracy < 3% (+0.005 OD in case of OD < 0.300)
Operating functions	10 methods in a run, assay-specific incubation times, multi-dilution and multi-antigen protocol processing. Double diluent and overnight sample dilution management. Programmable sample and reagent volumes, multi-sample and ALLERGY protocols. Easy and fast setting of assay parameters and worklist, double curve result calculation, patient reports and result archive with calibration curve storage for each carried out test.

IFA TECHNICAL FEATURES

Liquid handling	three 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
Slide washing	wells are washed one by one to prevent contamination
Washing modes	multi-well, continuous flow or drop by drop for specific washing effectiveness
Supplied trays	20 positions for IFA slides, custom reagent and sample racks
Wash Buffers	2 wash buffers in dedicated tanks with level sensor
Operating functions	10 methods in a run, assay-specific incubation times, double diluent sample dilution, well-specific sample and reagent volumes. Easy and fast settings of protocols, worklist and sample titration panel. Slide-specific thickness and layout design; number of wells, shape, size, and position. Sample repetition dispensing for multi-antigen slides and mixed tissue/cells wells. Evan's Blue and Mounting Medium dispensing.

COMMON TECHNICAL FEATURES

Built-in barcode readers	linear for samples (and reagents in case of RR configurations). Camera system for slide barcodes
Sample trays	customizable from 130 to 208 samples (standard: 169, Ø13 mm); variable number for RR configurations
Dilutions	264 or 440 (RR configurations) dilution cups
Sample dispense time	6s on average (2ml needle washing included)
Sample dilution time	15s (2ml needle washing included)
Dispense	CV < 1%, inaccuracy 1% at 100 ul
Aspiration	CV < 1%, inaccuracy 1% at 100 ul; minimum volume 5ul, 1ul resolution
Syringes	two syringes of 1000ul volume each, 1ul resolution
Working solutions	integrated holder for tanks with level sensor; waste in separated tank or direct wall connection
Connection	LIS connection for worklist input and result output
PC specifications	Intel I5 processor; 4GB RAM; VGA1024x768; HD100GB free space; USB2.0
Operative systems	Windows 10 or Windows 11
Power requirements	230 or 115 VAC, 50-60Hz, 650 VA
Size (LxWxH) and Weight	112x77x89/106cm - 140Kg

The shown features could be altered without notice

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