

MAGO 4

WALK-AWAY ANALYZER
for ELISA and IFA tests



Automation of
ELISA IFA and
agglutination
tests processing
simultaneously
in one batch

Positive sample
identification
from internal
barcode reader

104
sample
positions

Disposable tips
capability
for pipetting
of samples
and reagents

Levey-Jennings
and Westgards
rules program
on board

The project “Mago 4” systems from a basic project that shows still a very large potential for development.

The Delta Biologicals' R&D Department have transformed the marketing needs into the final product able to better satisfy qualitative needs and requests of the IVD Market. With the “Mago 4” project, Delta Biologicals can offer an updated system with positive identification of samples, disposable tips capability.

The maximum flexibility into the lab: ELISA and IFA tests contemporary.

Walk-away system that allows processing of samples in ELISA, IFA, hemoagglutination (TPHA), seroagglutination (Widal-Wright) and Allergy (specific IgE capture procedure) simultaneously.



MAGO 4

Advanced Fully Automated Analyzer



Functional characteristics

- One teflon-steel needle with disposable tips option (both with liquid level sensor) for samples and reagents. The IFA slides washing step is performed by the needle on a well by well basis to avoid any risk of cross-reaction.
- Washing manifold with 16 needles, 8 for aspiration (longer) and 8 for dispensing (shorter).
- One specific reagent rack for reagent bottles (diluent, conjugates, substrates) and for tubes (standards, controls, samples, pre-dilution, etc.). Reagent rack is a removable device so that once loaded can be stored and reused in subsequent runs of the same type.
- Separate built-in compartment for compressor and hydraulic circuitry.
- Dedicated drawer for high volume bottles (wash buffers, distilled water, wastes) with individual liquid level sensors.
- Integrated microplate reader with halogen lamp, optical fibers and a set of interferential filters, with three wavelengths reading capability.
- An independent incubation modules for each plate (room temperature and 37°C).
- Flat colour screen.
- Multilingual and intuitive software.
- Positive samples identification.
- Customized medical report.
- The automated well-washing performed at customized volumes and cycles.
- Complete integration with LIS system.
- Bidirectional external connection and remote diagnosis capability.
- Possibility to export results in excel format.
- Levey-Jennings and Westgard's rules programs on board.
- Easy and fast loading of slides into slide holders.
- IFA tests on slides are performed as screening and/or titration, with a serial dilution capability.
- Performs up to 12 ELISA test (per plate) or up to 16 IFA test

Technical features

COMPUTER CHARACTERISTICS

- 15,6 Flat colour monitor
- Pentium® processor
- 500 GB Hard Disk
- 4 GB RAM
- USB port, serial port, parallel port, ethernet port

READER CHARACTERISTICS

- O.D. linearity: 0-3.000 O.D.
- Wavelength: 400-800 nm/340-750 nm
- Accuracy: +/- 1% and +/- 0.005 O.D. at 1,5 O.D.
- Precision: +/- 0,5% and +/- 0,005 O.D. at 1,5 O.D.
- Available filters: up to 6
- Light source: 35 W halogen lamp
- Reading speed: 7 seconds per plate

UNIVERSAL BAR-CODE SYSTEM

- Code 39
- UPC/EAN
- Code 93 - Code 128
- Codabar
- Discrete 2 of 5
- Interleaved 2 of 5
- MSI UCC/EAN 128

POWER SUPPLY

- Voltage: 115-230 Volts
- Frequency: 50-60 Hz
- Absorbance: 4-7 A
- Maximum power: 200 Watt

DIMENSIONS

- Length: 120 cm
- Height: 670 cm
- Depth: 60 cm
- Weight: 80 Kg

ATMOSPHERIC CONDITIONS

- Room temperature: 10° - 30°C
- Maximum humidity: < 80%
- Maximum altitude: < 2.000 m

WATER REQUIRED

- Distilled or deionized

START-UP

- Less than 3 minutes



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Specifications are subject to change without prior notice.

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