

MAGO 4

Walk-away analyzer
for ELISA and IFA tests



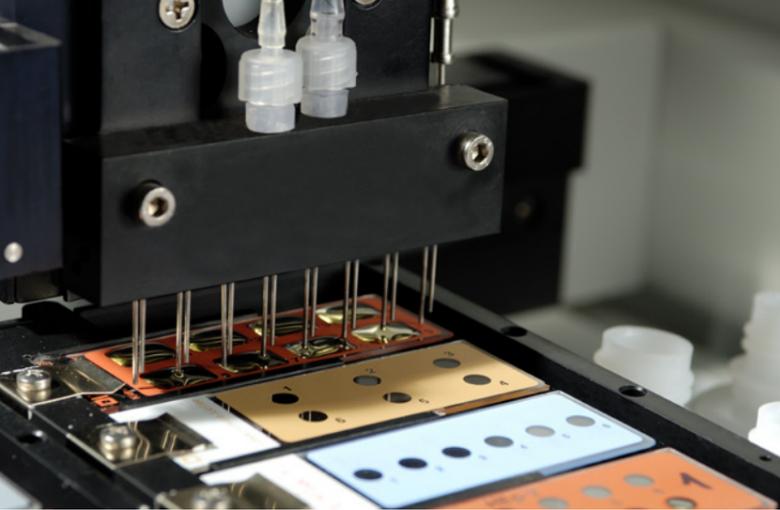
- Automation of ELISA, IFA and agglutination tests processing simultaneously in one batch
- 104 sample positions
- Performs up to 12 ELISA test (on 4 microplates) or up to 16 IFA test
- Levey-Jennings and Westgards rules program on board

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MAGO 4

Advanced Fully Automated Analyzer

Introducing

The project "Mago4" 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 "MAGO" series

The Mago series of bench-top analyzers: a dynasty with a very large development potential.

1997: Mago Plus

Open, walk-away analyzer for ELISA tests, able to only manage one wash buffer and on-board reader.

2001: Mago Plus DW

Open, walk-away analyzer for ELISA and IFA tests, able to manage two different wash buffers.

2009: Mago 4

Open, walk-away analyzer for ELISA and IFA tests, able to manage two different wash buffers, positive identification of samples, disposable tips capability and Windows XP software platform.

2012: Mago 4S

Open, walk-away analyzer for ELISA and IFA tests, able to manage two different wash buffers.

2017: Mago 4S and Mago 4

New version of analyzer with monitor touch screen and Windows 10 software platform.

Technical and functional characteristics

1. Disposable tips capability for pipetting of samples and reagents.
2. 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.
3. Washing manifold with 16 needles, 8 for aspiration (longer) and 8 for dispensing (shorter).
4. 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.
5. Separate built-in compartment for compressor and hydraulic circuitry.
6. Dedicated drawer for high volume bottles (wash buffers, distilled water, wastes) with individual liquid level sensors.
7. Integrated microplate reader with halogen lamp, optical fibers and a set of interferential filters, with three wavelengths reading capability.
8. An independent incubation module for each plate (room temperature and 37°C).
9. Flat colour screen.
10. Multilingual and intuitive software.
11. Positive samples and reagents identification.
12. Customized medical report.
13. The automated well-washing performed at customized volumes and cycles.
14. Complete integration with LIS system.
15. Bidirectional external connection and remote diagnosis capability.
16. Possibility to export results in excel format.
17. Levey-Jennings and Westgard's rules programs on board.
18. Easy and fast loading of slides into slide holders.
19. IFA tests on slides are performed as screening and/or titration, with a serial dilution 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.

Technical data sheet

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

