ETI-*Max*3000

DESIGNED TO SIMPLIFY AND OPTIMIZE YOUR ROUTINE

ETI-Max3000

> 4 PLATES UP TO 7
Increased number of results with continuous loading of samples and reagents.

> RANDOM ACCESS AND BATCH MODE
Multiple analytes on the same plate (1 up to 12) or single analyte per plate.

> SAFETY AND RELIABILITY
Full process control to guarantee secure results.

> EASY MAINTENANCE
Automatic daily weekly.

> SEROTEC FUNCTIONALITY
Samples aliquoting in tube/plate.

> SOFTWARE FEATURES
- Maximum flexibility in protocol programming and creation of microplate maps.
- Different worklists in different cycle times.
- Schedule for optimizing loading time.
- Archive of results by plate and by individual patient.
- Bidirectional interface to a LIS in compliance with ASTM specification and ASCII file transfer.

SAMPLE/REAGENT LOADING AREA
- Barcode reading: barcode automatically reads primary samples and reagents.
- Up to 240 primary tubes.
- Sample racks: each holds 20 samples of varying sizes (10-16 mm diameter).
- Reagent racks: optimized for DiaSorin reagents in 4 different types.
- Automatic checking of required reagent volumes.

PREDILUTION AREA
- Removable predilution rack, with additional reagent positions.
- Up to 160 predilution tubes (20 rows of 8 tubes).
- Predilution tube positions identified by numbers.
- Serial dilutions.
- Tip requirement automatically calculated (up to 480 on board).
- 300 µ L and 1100 µ L conductive disposable tips.
- Clot detection.
- Check for sample/reagent post-dispensation.
- High-speed dispensing.
- No carryover.
- Mixing (in predilution tube and microplate).
- Sample/reagent multidispensing.
- Patient sample archiving.

DISPENSING AREA
- Maximum precision in predilution and dispensing.
- Clot detection.
- Check for sample/reagent post-dispensation.
- High-speed dispensing.
- No carryover.
- Mixing (in predilution tube and microplate).

- Sample/reagent multidispensing.
- Patient sample archiving.

WASHING AREA
- 8 channels of dual needles.
- Washing of different types of microplates.
- 4 different wash buffers on board.
- level sensing.

INCUBATION AND READING AREA
- Robotic plate transfer between assay steps.
- 4 independent incubators can each be set at room temperature to 50 C°.
- Reading: absorbance and kinetics value.

TEST PROFILES ON ETIMAX 3000
More than 150 tests avaible*

> VIRAL HEPATITS
> TORCH
> EBV
> RETROVIRUSES
> AUTOIMMUNITY
> OTHER INFECTIOUS DISEASE

*Not all the assays are available in all countries.
Please refer to your local DiaSorin representative.

murex
Murex® is a DiaSorin trademark
on board

TECHNICAL SPECIFICATION

SAMPLE AND REAGENT DISPENSING UNIT

Liquid handling	1 syringe of 1-mL capacity
Disposable tips	Carbon, 300 or 1100 µL, automatically managed by the software
Pipetting area	4-plate handling
Precision (Sample & Reagent)	CV < 8.0% with 10 µL CV < 2.5% with 100 µL
Level sensor system	Electronic
Clot detection	Yes
Mixing	Yes (for predilution tube & microplate)
Multidispensing	Yes (sample, control & reagent)
Sample dispensing time	< 18 min/96 wells (100 µL/well)
Reagent dispensing time	< 4 min/96 wells (100 µL/well)
Carryover	None

SAMPLE IDENTIFICATION UNIT

Identification	Barcode scanner for primary tubes, controls & reagents Barcode scanner for microplate (optional) Manual barcode gun (optional, connected in emulation keyboard)
Tubes	10-16 mm diameter, 55-100 mm height 16 mm diameter, 100 mm height
Labels	Interleaved 2 of 5, UPC A & E, IATA 2 of 5, Industrial 2 of 5, EAN 8 or 13, Code 128, EAN 128, Pharmacode, EAN Addendum 2 or 5, Code-a-bar
Capacity	Up to 240 sample tubes

INCUBATION UNIT

Capacity	4 independent chambers
Temperature range	5°C above room temperature to 50°C
Accuracy	± 1°C mean of plate
Uniformity	± 0.7°C across plate
Shaking	Longitudinal

WASHING UNIT

Capacity	Up to 4 wash buffers
Wash head	1 x 8
Dispensing volume	200-2500 µL/well, managed per assay
Precision	± 5% CV at 300 µL
Residual volume	< 2.5 µL in U-shaped bottom wells < 4 µL in flat bottom wells
Buffers level sensor	Yes
Waste tank level sensor	Yes
Wash cycles	1 to 9, managed per assay
Soak time	1 to 999 sec, managed per assay
Dispensing pressure	Adjustable per assay

READING UNIT

Reading	Vertical with photodiodes, absorbance or kinetics
Channels	8
Method	Single, double or double beam with overrange filter
Spectrum	400-700 nm
Filters	Up to 8 positions available, 5 already on board (405, 450, 492, 550, 620 nm)
Reading time	Less than 10 sec
Dynamic range	- 0.100 to 3.000 absorbance units
Linearity	0-2.000 absorbance units ± 1.0%
Accuracy	± 0.005 absorbance units or 2.5%

MANAGEMENT SYSTEM

Computer	Pentium III, 500 MHz, 64 Mbytes RAM
Hard disk	6.4 GBytes
Keyboard	Alphanumeric
Mouse	Standard
Monitor	19" colour
Printer	Laser

SOFTWARE FEATURES

Operating system	Window XP, Windows 2000 or 95 32-bit application
Language	Multilanguage
Plate capacity	4 up to 7, in continuous loading
Multiple assays per plate	Yes, up to 12 assays
Data reduction	Cut-off (qualitative) Interpolation method (quantitative): 4 parameters, point-to-point, linear regression, cubic, spline, etc.
QA analysis	Mean, SD, CV, Levey-Jennings
Protocols storage	Related to HD capacity
Result printout	Definable per assay and per patient
Patient archive	Yes
Plate loading	Per plate, managed with time scheduling
Process in control	Yes (on-line log event/error file)
I/O Interface	ASTM and Flexible ASCII.
Patient sample archiving	Yes, plate and tube

DIMENSIONS

Width	1130 mm
Depth	760 mm (880 mm including the pipette waste bag)
Height	1000 mm
Weight	130 kg

ELECTRICAL REQUIREMENTS

Universal a.c. input	100 - 240V / 3.2 – 1.3° / 50 – 60 Hz
Power	Typically 500 VA max