

Erba LisaScan[®] EM

Erba LisaWash[®] - II



Automated **ELISA** Microplate **Reader** and **Washer**

Erba LisaScan® EM

Automated ELISA Microplate Reader



Auto self-checkup on every start



Minimal reading time: 8 seconds for 96 wells plate



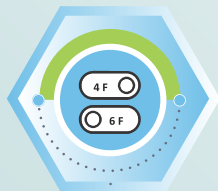
Large LCD screen with user-friendly operating software



100 user-programmable ELISA test slots



In-built thermal printer, option to connect external printer



Two models available: 4 Filter and 6 Filter



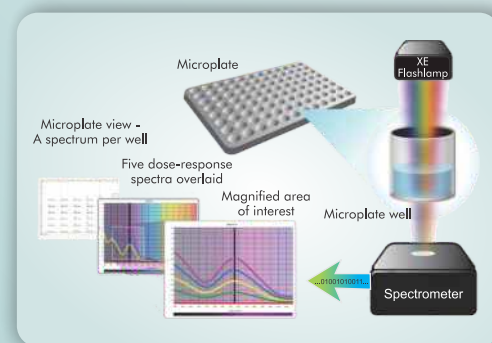
Single, Dual and Multi-wavelength reading options with advanced 8-channel optical system



Numerous options for Blanks, Measurement modes and Calculation modes



'ELI-LIMS': Computer connection software for ELISA data management and Quality Control functions



Principle and Working of ELISA reader



A Snapshot from ELI-LIMS software



Erba LisaWash® - II

Automated ELISA Microplate Washer



Washes only 96-well format microplate with U/V or Flat bottom



50 user defined wash protocol



Removable 8-channel/12-channel manifold, with separate needles for aspiration and dispensing, $\leq 3 \mu\text{l}$ residual volume



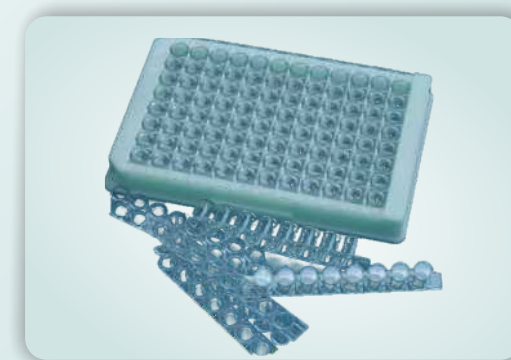
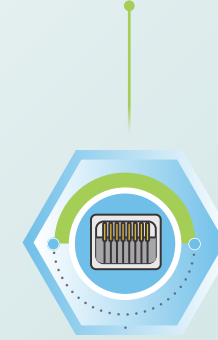
User-friendly windows based operating software with large LCD display



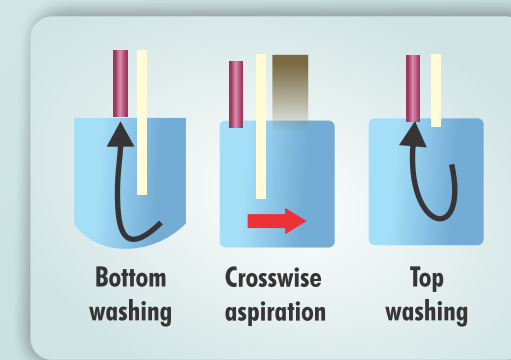
Standard aerosol protection cover and easy to decontaminate plate carrier



2 wash buffer bottles, 1rinse/DI bottle and 1 waste bottle with sensor, 2L each



Row and plate wash modes



Super Sweep washing for minimal residual volume

Erba Lisa® Range of ELISA Parameter

Allergy

- IgE

Bone Metabolism

- 25 (OH) Vitamin D
- PTH

Fertility

- FSH
- LH
- hCG
- Prolactin

Diabetes

- C-Peptide
- Insulin

Thyroid

- Triiodothyronine (T3)
- Thyroxine (T4)
- TSH
- Free (FT3)
- Free (FT4)

Autoimmune Disorders

- ANA Screen IgG
- dsDNA IgG
- Cardiolipin Total Ab
- SSA IgG
- SSB IgG
- Throglobulin Ab (TG)
- Thyroid Peroxide (TPO) IgG

Dengue

- NS1 Ag
- IgM μ -Capture
- IgG Capture

Infectious Disease

- CMV IgG
- CMV IgM
- HSV-1 IgG
- HSV-1 IgM
- HSV-2 IgG
- HSV-2 IgM
- Measles IgG
- Measles IgM
- Mumps IgG
- Mumps IgM
- Rubella IgG
- Rubella IgM
- Toxoplasma IgG
- Toxoplasma IgM

Anemia

- Ferritin
- Vitamin B-12
- Folate

Blood Transfusion

- HIV Gen4
- HBsAg
- HCV Gen3 (v2)
- Malaria PAN (LDH)
- Syphilis

Cancer

- Free PSA
- PSA
- AFP
- CA 15-3
- CA 19-9
- CA-125
- CEA

Inflammatory

- C-Reactive Protein

Steroid

- DHEA-S
- Estradiol
- Progesterone
- Testosterone

Erba LisaScan® EM

Automated ELISA Microplate Reader

Technical Specifications

System type

Open System

Plate types

96 well plates

Wells Type

U.V and Flat bottom wells

Operating Modes

Absorbance
Quantitative
Qualitative
Semi-Quantitative
Kinetic Mode

Measurement Modes

Continuous / Step

Shaking Modes

Three Linear Speeds - Low, Medium and Fast

Time duration can be set

Wavelength Selection

Monochromatic,
Bi-Chromatic,
Multi-Chromatic* (Maximum 4)

Calculation Modes

Non-linear Standard
Cut-off
Index Formula
Linear Regression
Point to Point
Cubic Spline
Linear – Log

Blank Options

Blank, Control, Assay
Validation equations
Against Air, Well, Plate, Column,
Column-mean, Row, Row Mean.

Number of programmable standards / calibrators

Up to 10 standards
Storage/ display/ printing of multi standard curves and cut-off equations for all parameters.

Test Programs

100 user defined Test Programs

Photometer

Measuring system : 8-Channel optical System
Lamp Source : Tungsten Halogen with
Lamp saver function

Wave length

Range : 400 to 800 nm

Standard Filters : 405 nm,450 nm,
492 nm, 630 nm
(10 nm Band Pass).
(Optional two filters
578 nm, 700 nm)

Dynamic Range : 0.0 ~4.0 OD

Photometric

accuracy : < 1% at 2.5 OD at 450 nm

Repeatability : < 0.5% at 2.5 OD

Photometric

resolution : 0.001OD

Linearity : <1% at 2.5 OD at 450 nm

Measurement Time

NORMAL : 16 Seconds single
wavelength

SPEED : 8 Seconds single
wavelength

Display

High resolution Graphics
LCD 320x240 pixels

Keyboard

Sturdy membrane panel

PC Communication

Serial RS232 / USB

Built-in Thermal Printer

High resolution, 384 dots per line, thermal type
with full graphics facility, and option for
connecting external parallel printer.

Computer interfacing Software

Windows Based Software

Eli-LIMS for data management (Optional)

Reports format

Alphanumeric patient ID based
linear and matrix reports with
OD, Conc, Cut off interpretation
etc. Calibration graphs stored &
printed.

5000 sample test results can be
viewed / stored / printed

Online Help

At each step on-line help in
each menu. **Beeps and online
instructions on erroneous entry.**
Special HELP key on keypad.

Operating Temperature

20° to 40°C

Storage Temperature

10° to 50°C

Humidity

Max. 80% RH, non-condensing.

Power Supply

18V/5A using External Auto
ranging SMPS adaptor
115/230VAC ±10%, 50/60Hz.

Dimension

502 X 369 X 216 mm

Weight

7 Kg

Note: Above specifications are subject to change without prior notice.

Erba LisaWash® - II

Automated ELISA Microplate Washer

Technical Specifications

User Interface

5 inch LCD display

Wash head

8 or 12 head manifold compatible

Wash mode

Row and Plate

Wash rows

1-12 rows

Plate Type

96 well plate or strip
(Flat, U & V - bottom)

Strip Washing

1 to 12 strips programmable

Wash programs

50 user defined wash protocols

Washing Cycle

Up to 12 cycles

Dispensing Volume

50~3000 µL for 8-way manifold or
50~2000 µL for 12-way manifold

Dispensing Precision

< 2.0 % at 350 µl

Dispensing Accuracy

< 2.0 % at 350 µl

Prime volume

50 – 1000 µl

Aspiration pressure

Programmable

Soak time

0~24 hours

Residual volume

≤ 2 µl for V/ U bottom plates or
≤ 3 µl for Flat bottom plates.

Number of Bottles

2 Wash buffer, 1 Rinse/DI & 1 Waste
bottle with sensor, 2L each

Note: Above specifications are subject to change without prior notice.

Transasia - Erba Group

Global Footprint



India Advantage

NO.1 IVD
COMPANY
IN INDIA

65000+
Installations



Customer Support
Least downtime



Supply Chain
Widest Network
in the Industry



Sales & Marketing
Largest in the
IVD Industry

IMW/10-2019/03/DOW/BRO

ERBA Diagnostics Mannheim GmbH

Mallaustrasse 69-73 68219 Mannheim, Germany
Telephone : (+49) 621 8799770 Fax : (+49) 621 8799688
Email : sales@erbamannheim.com

Toll Free Number

1800 103 8226

W: www.erbamannheim.com
Stay connected: [in](#) [t](#) [e](#) [o](#) [f](#)

TRANSASIA BIO-MEDICALS LTD.

Transasia House, 8 Chandivali Studio Road,
Andheri (E), Mumbai - 400 072. T: (022) 4030 9000,
F: (022) 2857 3030 E: responses@transasia.co.in

