Erba LisaScan® EM
Erba LisaWash® II

Automated ELISA Microplate Reader and Washer

Making Automation Affordable
for Labs Everywhere

CE

www.erbamannheim.com

Erba LisaScan® EM

Automated ELISA Microplate Reader

In-built thermal printer, option to connect external printer

Large LCD screen with user-friendly operating software

Minimal reading time: 8 seconds for 96 wells plate

Auto self-checkup on every start

100

100 user-programmable ELISA test slots

4F
6F

Numerous options for Blanks, Measurement modes and Calculation modes

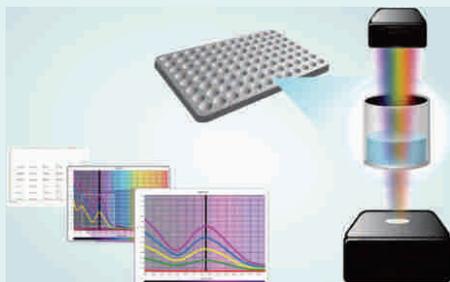Two models available: 4 Filter and 6 Filter

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

'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

User-friendly windows based operating software with large LCD display

Washes only 96-well format microplate with U/V or Flat bottom
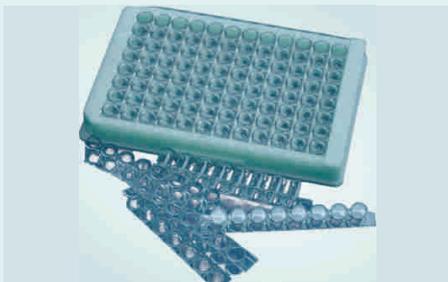
50 user defined wash protocol

Standard aerosol protection cover and easy to decontaminate plate carrier
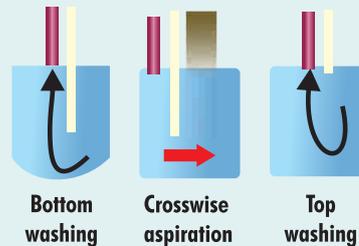
Two models available: 4 Filter and 6 Filter

Removable 8-channel/12-channel manifold, with separate needles for aspiration and dispensing, ≤3 μl residual volume

Row and plate wash modes

Bottom washing **Crosswise aspiration** **Top washing**

Super Sweep washing for minimal residual volume

Erba LisaScan® EM

System type: Open System

Plate types: 96 well plates

Wells Type: U.V and Flat bottom wells

Wavelength Selection: Monochromatic; Bi-Chromatic and Multi-Chromatic* (Maximum 4)

Test Programs: 100 user defined Test Programs

Blank Options:

- Blank; Control; Assay
- Validation equations
- Against Air; Well; Plate; Column; Column-mean; Row and 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.

Display: High resolution Graphics LCD 320x240 pixels

Keyboard: Sturdy membrane panel

PC Communication: Serial RS232 / USB

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

Measurement Time:

- **NORMAL:** 16 Seconds single wavelength
- **SPEED:** 8 Seconds single wavelength

Built-in Thermal Printer: High resolution, 384 dots per line, thermal type with full graphics facility, and option for connecting external parallel printer.

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 and 630 nm (10 nm Band Pass). Optional two filters 578 nm and 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

Reports format

Alphanumeric patient ID based linear and matrix reports with OD, Conc, Cut off interpretation etc. Calibration graphs stored and printed. 5000 sample test results can be viewed / stored / printed

Erba LisaWash® II

Main Features

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

Dispensing Volume:

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

Washing Cycle: Up to 12 cycles

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
- ≤ 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

ErbaLisa® Range of ELISA Parameter

Allergy

Infectious Disease

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

Inflammatory

- C-Reactive Protein

Anemia

- Ferritin
- Folate
- Vitamin B-12LH

Dengue

- NS1 Ag
- IgM µ-Capture
- IgG Capture

Bone Metabolism

- 25 (OH) Vitamin D
- PTH

Diabetes

- C-Peptide
- Insulin

Fertility

- FSH
- LH
- hCG
- Prolactin

Steroid

- DHEA-S
- Estradiol
- Progesterone
- Testosterone

Blood Transfusion

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

Thyroid

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

Autoimmune Disorders

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

Cancer

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

Bringing immunoassay solutions to growing labs everywhere

Erba Mannheim is a fully integrated global in vitro diagnostics company, offering a comprehensive suite of clinical testing products to the growing number of smaller hospitals, reference labs, and physician clinics in the developed and emerging markets with reliable, affordable and innovative health care products.

In 2017, Calbiotech Inc. joined the Erba Mannheim group, bringing over 20 years of expertise in developing immunoassay kits that have been manufactured and distributed to over 80 countries across the globe.

Experience true versatility in ELISA automation with the new ELAN 30s.

Combine up to 6 different tests in every run, independent of assay protocol and incubation times.

Ideal for running a full panel of clinical parameters in parallel.

Complete walk-away automation, up to 240 tests per run.

For more details, please contact your local Erba Mannheim associate.

Erba Lachema s.r.o.
Karásek 2219/1d, 21 00 Brno,
Czech Republic

www.erbamannheim.com

CE