ESR 2010

Automated Erythrocyte Sedimentation Rate Analyzer

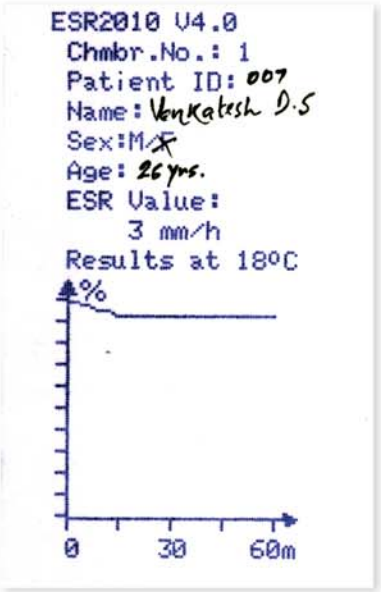
Easy & Economical
Plug in & start testing

Smart & Safe
Load specimen tube

Rapid & Reliable
Results in 30 minutes

- Westergren manual ESR results vary with temperature and humidity.
- Varied Westergren manual ESR results may be obtained with blood sample 'x', if performed at 17 ^{0}C; 25 ^{0}C; 32 ^{0}C and so on.
- With Automated ESR 2010, as the Westergren ESR results are auto-corrected to 18 ^{0}C (Manley) in 30 minutes, the above referred sample 'x' will give same result even if the test is done at 17 ^{0}C; 25 ^{0}C; 32 ^{0}C and so on (if performed in accordance with the instructions given by the manufacturer).

Avoid giving wrong Westergren manual ESR results, switch to Automated ESR 2010 and give auto-corrected Westergren results at a standard 18 ^{0}C, irrespective of your laboratory temperature.



(Printout of ESR result)

Not just Automation, but also Auto-Correction of ESR Results

ESR 2010

Automated Erythrocyte Sedimentation Rate Analyzer

TECHNICAL SPECIFICATIONS

Dimensions	:	22 cm x 21.6 cm x 17.5 cm(wxhxd)
Weight	:	2.5 kg
Electrical specifications	:	Input: 100-240V AC~50-60Hz Output: +5V DC 2.8 A
Reading chambers	:	10
Loading capacity	:	Maximum 10 samples
Loading pattern	:	Random Access
Measurement principle	:	Infrared detection, IR transmission reading at start and during 30 minutes of sedimentation of RBCs
Measurement range	:	1 - 140 mm/hr
Reading resolution	:	+/- 0.2 mm
Result resolution	:	+/- 1 mm
Temperature correction	:	Automatic compensation referred to 18 °C (Manley table)
Working environment	:	Temperature: 15 °C to 32 °C Humidity: 45% to 85%
Results	:	In Westergren mm/hour (by interpolation) auto-corrected to18 °C
Reproducibility	:	C.V < 5%
Graphic of kinetics	:	On printer (45mm Dot Matrix Stylus Printer, *Optional*)
Analytical capacity	:	Maximum 20 samples per hour
Analysis time	:	30 minutes
Display	:	LCD 40*2, with backlight
Printer interface	:	LPT
Interface	:	RS232 serial port
Test Tube	:	Use Manual tube or Vacuum tube (120mm x 8mm, thickness 1mm) with 0.32ml of 3.8% Sodium Citrate Solution, for 1.28ml blood (mixing ratio 1:4)
Blood draw level acceptance	:	From 50mm to 64mm

Smart Technology

Modern IR microtechnology for robust performance and greater efficiency in the analysis of ESR with automatic temperature correction.

Real time detection of specimens; measurement and reporting of results.

Ease of use

Plug in and start testing.

Easy procedure: Add Sodium citrate & specimen to tube; Place tube in analyzer; Results in 30 minutes.

No special expertise required.

Blood volume 1.1 ml to 1.28 ml required.

EDTA stored blood may be used for testing (max. 2 hrs.)

High Throughput

20 specimens per hour can be analyzed.

Safe Handling

"Closed Analysis System". Reduced contact with hazardous blood specimens (vacuum ESR tubes).

Random Access

Individual timers in each reading chamber.

Use any open chamber to automatically measure, time and report result.

Greater Reliability

Excellent correlation to Westergren method.

ESR results automatically corrected to 18 °C (Manley).

Advanced Features

Graphic printout of results can be obtained.

No Service Maintenance