SFRI
Medical Diagnostics

ESR 3000

Erythrocyte Sedimentation Rate Analyzer
Performance Comes in Handy

ESR 3000

SFRI ESR 3000 is an automatic Erythrocyte Sedimentation Rate analyzer capable of performing standardized ESR analyses complying with the modified Westergren method. Testing of blood sedimentation rate allows for the monitoring of inflammation and infection in the body.

Excellent correlation with Westergren

- Fast: reading time 30 min and 60 min equivalent to the 1 h and 2 h Westergren method
- High quality vacuum glass tubes used for blood collection and running tests: ensure more precise sedimentation rate than plastic tubes
- Cost of tests equals cost of tubes only!
- No blood handling: conceived to simplify ESR analysis as much as possible, avoiding sample manipulation and removing the risk of operator infection
- Positive detection: optional barcode reader for ESR tubes avoids identification errors
- Traceability: built-in thermal printer with automatic print-out of sedimentation rate and kinetic curve of sedimentation
- Simplicity: stand-alone instrument with mono-directional LIS interface
- Throughput: 60 samples per hour (30 min mode)
- Maintenance free


Vacuum glass tubes for ESR


3D webs with individual infrared detectors for random reading


Optional barcode reader for easy tube identification

Consumables

		NAME	TYPE	QUANTITY	REFERENCE
	TUBES	ESR Citrated Tubes	Vacuum Glass tubes*	1000 units	C030003

	NAME	LEVELS	QUANTITY	REFERENCE	EVS	EVS
CONTROLS	SedTrol	Normal and pathological	2 x 9 ml vials	R030001	115 days	28 days
		Normal and pathological	4 x 9 ml vials	R030002	115 days	28 days

* Contact your local distributor for further information

Random Access Erythrocyte Sedimentation Rate Analysis

To Each His own Operating Method
Methode 1: Randomly insert tubes without referencing them and wait for results.
Methode 2: Identify a specific well and assign it a precise tube by scanning the barcode or entering it manually. Tubes are thus clearly identified and referenced and can be assigned to their respective patients.

Minimal Costs and no Maintenance
ESR 3000 requires no preventive maintenance whatsoever and uses no reagents. The purchase of vacuum glass tubes has a negligible effect on operational costs.

User-friendly and Efficient
Its large LCD touch screen makes for comfortable and easy use of the ESR 3000. The optional barcode reader allows for quick and easy identification of samples.

Reliable and Accurate
Highly reliable and fully automated, the ESR 3000 has a reading accuracy rate inferior to 0.2 mm and a reproducibility inferior to 3% or 2 mm.

Accurate, precise and perfectly correlated results day in and day out

Time Saving and Easy Work Flow
ESR 3000 has a capacity of 30 simultaneous samples with random access and can process up to 60 samples per hour (30 min mode). Every sample well is equipped with individual infrared detectors for precise and accurate measurements. The ESR 3000 follows the sedimentation rate of each sample independently, memorizing levels for the whole period of analysis.

Continuous and random processing of samples all day long

Practical and Handy
In carrying out analyses, the ESR 3000 can measure the room temperature and automatically convert results to the reference temperature of 18°C. This is necessary to avoid considerable variations of values, due to different room temperatures, and will help ensure easy patient follow up and comparison with previous tests. The ESR 3000 can store up to 200 test results a day, and all results can be transferred via LIS to patient files.

Guaranteed Precise Results
To ensure optimum results, the ESR 3000 has 2 levels of quality control;
- External: specifically dedicated SFRI controls
- Internal: automatic kinetic analysis of sedimentation every 3 min, resulting in the print-out of the kinetic curve of sedimentation and allowing for the verification of the analysis process.

ESR 3000

TECHNICAL SPECIFICATIONS
ESR 3000: REFERENCE A0301

PRINCIPLES
Photometric infrared reading principle
Automatic measurement of RBC level every 3 min

MEASURING MODE
30 min or 60 min correlated modified Westergren method

CAPACITY
30 samples processed simultaneously with random access

THROUGHPUT
60 tests per hour (30 minute mode)

ACCURACY RATE
‹ 0.2 mm

TEMPERATURE ACCURACY
‹ 0.3° C

REPRODUCIBILITY
‹ 3%; ± 2 mm

AUTOMATIC TEMPERATURE CORRECTION
ESR results can be automatically adjusted to 18°C

QUALITY CONTROL
Normal and pathological controls; 9 ml vials

MEMORY STORAGE
200 results per day

SFRI VACUUM GLASS TUBES
Total sample volume 1.28 ml
Contains sodium citrate solution 0.32 ml
Tubes complete with labels

INPUT/OUTPUT
Barcode interface (optional barcode)
Parallel printer interface
RS232 port for mono-directional LIS

PRINTOUT
Fast thermal printer, 57.5 mm wide paper, recording width 48 mm

DISPLAY
5" LCD touch screen
Monochrome display

OPERATING ENVIRONMENT
Temperature 10°C – 40°C
Humidity ‹ 85% (max humidity)

POWER REQUIREMENTS
A.C. 110/220 V ±10%; 50 – 60 Hz
Consumption: 50 W

DIMENSIONS
300(W) x 180(H) x 400(D) mm

WEIGHT
10 kg

CE

Your Local Distributor:

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