

# SFR<sub>I</sub>

Medical Diagnostics



ESR 3000

Erythrocyte Sedimentation Rate Analyzer  
Performance Comes in Handy

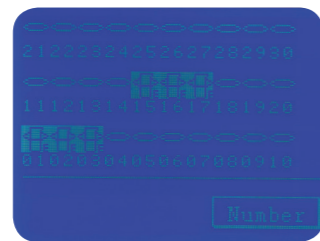
SFRI ESR 3000 is an automatic Erythrocyte Sedimentation Rate analyzer capable of performing standardized ESR analysis complying with the modified Westergren method. Testing of blood sedimentation rate allows for the monitoring of inflammation and infection in the body.

**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



30 wells with individual Infrared detectors for random testing



Optional barcode reader for easy tube identification

## Consumables

	NAME	TYPE	QUANTITY	REFERENCE
<b>TUBES</b>	ESR Citrated Tubes	Vacuum Glass tubes*	1000 units	C030003

	NAME	LEVELS	QUANTITY	REFERENCE	CVS	OVS
<b>CONTROLS</b>	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**

### 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.

### 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.

# ESR3000

## 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

Your Local Distributor:

