



**EXCALIBUR
LAB SPECIALISTS, INC.**

Introducing

Automated ESR Results
in Just 20 Seconds!



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Believe in Innovation

GROUNDBREAKING 20-SECOND RESULTS AND MORE

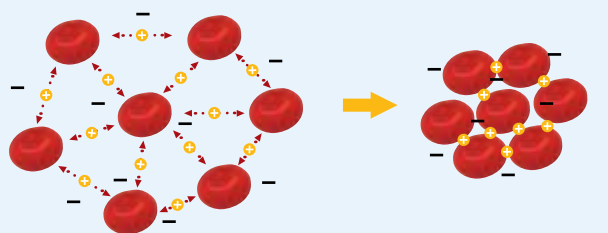


- ▶ Rapid test turnaround time enables improved batch processing
- ▶ Results highly correlated to the Westergen reference method
- ▶ In accordance with CLSI requirements*
- ▶ 1.000 readings for each sample per test
- ▶ Use of the same EDTA tube coming from the CBC
- ▶ Only requires a 175 µl sample
- ▶ Self-cleaning without contamination
- ▶ Self-checking of reading sensors and of physical obstacles
- ▶ Data transmission to LIS
- ▶ Efficiency and precision
- ▶ Standardized and reproducible

TEST 1 is the only analyzer capable to give ESR results in 20 seconds by measuring the kinetics of red cells aggregation.

TEST 1 CAPILLARY PHOTOMETRY TECHNOLOGY overcomes the variables and limitations of the sedimentation method also listed in the CLSI document*.

EACH SAMPLE IS READ 1000 TIMES IN 20 SECONDS



Aggregation Start

Aggregation after 20 seconds

TRADITIONAL SEDIMENTATION ESR

NEW CAPILLARY PHOTOMETRY

Temperature variability	Temperature control 37°C
Hematocrit influence	Independent from Hematocrit value
Dilution problems using Sodium citrate	No dilution, use of EDTA tube
Inadequate materials and pipettes variability	Use of the same capillary for all samples
Vibrations and pipettes verticality	No influence of vibration or other external factors
Not standardized sample mixing	Automated mixing step
Controls and Calibrators lack	Latex Controls and Calibrators available
Poor reproducibility	High reproducibility

A New Generation of ESR Testing Only From Excalibur

* Clinical Laboratory and Standard Institute (formerly NCCLS) "Reference and Selected Procedure for ESR Test; Approved standard- 4th Edition" Vol.20 No.27; December 2000



FULLY AUTOMATED ANALYZER FOR THE DETERMINATION OF THE ERYTHROCYTE SEDIMENTATION RATE

Test 1

- Results in 20 seconds based upon the kinetics of red cell aggregation
- Results expressed in mm/h
- High correlation with the Westergren method
- Low hematocrit levels have no influence on results
- Uses standard CBC tubes
- 175 µl EDTA blood sample per test
- Only 800 µl of sample is required in the tube
- Capacity up to 60 samples
- Throughput up to 180 samples/hour
- First result available after 5 minutes
- Latex Calibration & Controls
- Smart cards
- Thermostat at 37°C
- Mixing cycles in accordance with CLSI requirements*
- Internal bar code reader
- Connection to LIS
- Simplified needle replacement
- Thermal printer
- Complete integration in the hematology laboratory



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Test 1 THL

Code SI 195.210/THL

Up to 60 samples per session with standard Test1 racks. Cell Blood Counter racks adapters available.



NEW DIRECT LOADING FROM THE ORIGINAL CELL BLOOD COUNTER RACK



Test 1 BCL

Code SI 195.220/BCL

Up to 60 samples per session with ALIFAX green plastic racks. Up to 48 samples per session with Beckman Coulter CBC racks.



Test 1 SDL

Code SI 195.230/SDL

Up to 40 samples per session with ALIFAX yellow plastic racks. Up to 40 samples per session with Sysmex CBC racks.



Test 1 YDL

Code SI 195.240/YDL

Up to 40 samples per session with ALIFAX blue plastic racks. Up to 40 samples per session with Siemens CBC racks.



Test 1 MDL

Code SI 195.250/MDL

Up to 40 samples per session with Beckman Coulter CBC racks.



Test 1 XDL

Code SI 195.260/XDL

Up to 40 samples per session with Beckman Coulter CBC racks.

Test 1 - THL-BCL-SDL-YDL-MDL-XDL

Technical Features

Power supply: 115-260 VAC 10%, 50/60 Hz Power consumption: 150 VA max. Operative temperature: from +10 to +30 °C Size: 510x560x600 mm Weight: 45 Kg I/v out specifications: two RS232 serial ports Bar code reader: internal

FULLY AUTOMATED ANALYZER FOR THE DETERMINATION OF THE ESR TEST WITH EXTERNAL NEEDLES FOR PEDIATRIC SAMPLES AND UNCAPPED TUBES

Roller 20LC

- Results in 20 seconds based upon the kinetics of red cell aggregation
- Results expressed in mm/h
- High correlation with the Westergren method
- Low hematocrit levels have no influence on results
- Uses standard CBC tubes
- Only 800 µl sample required in the tube
- First result available after 5 minutes from analysis start
- Latex Calibration & Controls
- Smart cards
- Thermostat at 37°C
- Mixing cycles in accordance with CLSI requirements*
- Connection to LIS
- Simplified needle replacement
- Thermal printer
- Automated washing



Code SI R20-LC



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Roller 20LC Technical Features

Power supply: 115-230 VAC, 50/60 Hz Power consumption: 50 VA max Operative temperature: from +10 to +30 °C Size: 320x560x580 mm Weight: 23,2 kg ca In/out specifications: two RS232 serial ports Optional accessories: external CCD bar code reader

Roller 10PN

Roller 20PN

- Results in 20 seconds based upon the kinetics of red cell aggregation
- Results expressed in mm/h
- High correlation with the Westergren method
- Low hematocrit levels have no influence on results
- Uses standard CBC tubes
- 100 µl EDTA blood sample with manual withdrawal and 175 µl with automated withdrawal
- Only 100 µl sample required in the tube for manual withdrawal and 800 µl for automated withdrawal
- First result available after 5 minutes
- Latex Calibration & Controls
- Smart cards
- Thermostat at 37°C
- Mixing cycles in accordance with CLSI requirements*
- LCD touch screen
- User-Friendly software
- Connection to LIS
- Simplified needle replacement
- Thermal printer



Code SI R10PN, SI R20PN



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Roller 10PN/20PN Technical Features

Power supply: 115-230 VAC, 50/60 Hz Power consumption: 100VA Operative temperature: from +10 to +30°C Size: 240x380x450 mm Weight: 14/16 Kg In/ out specifications: two RS232 serial ports Optional accessories: external CCD bar code reader



Roller 10 PN
1 rotor for
10 samples



Roller 20 PN
2 rotors for 20 samples
and automatic washing system



LATEX CONTROLS



THREE FLEXIBLE CONTROL KIT OPTIONS TO HELP YOU GUARANTEE:

- Precision
- Accuracy
- Reproducibility



Latex Control Kit 6 tests
Code SI 305.100-A (Greiner tubes),
SI 305.102-A (Sarstedt tubes)



Latex Control Kit 30 tests
Code SI 305.300-A (Greiner tubes),
SI 305.302-A (Sarstedt tubes)



External Quality Evaluation Kit
Specific for Test 1 family instruments
Code SI 305.500-A (Greiner tubes),
SI 305.502-A (Sarstedt tubes)

SHELF LIFE: From production: 6 months. From the 1st piercing: 6 weeks **STORAGE CONDITIONS:** refrigerated temperature (+2+8°C)

NEW TWO PARAMETER CARDS FOR TEST 1 FAMILY INSTRUMENTS

Smart CARDS



1000 tests



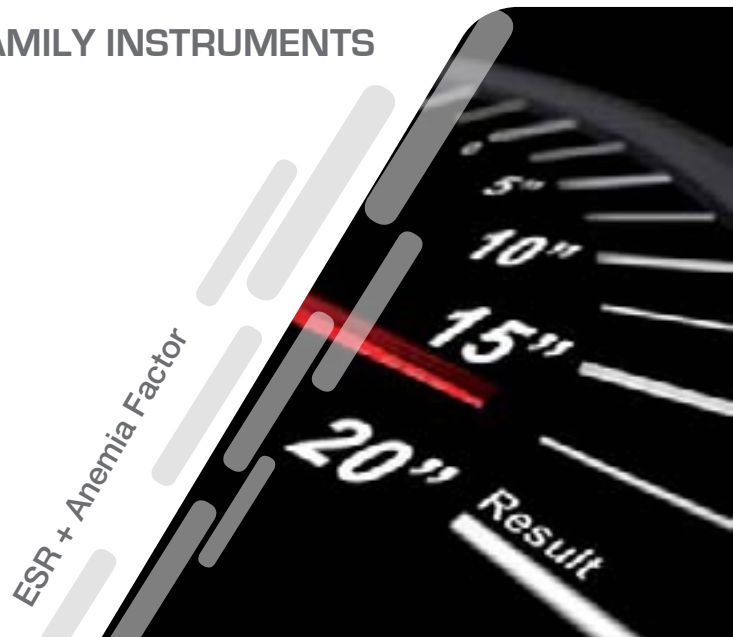
4000 tests



10000 tests



20000 tests



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SCIENTIFIC PUBLICATIONS

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**EXCALIBUR
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2232 Meridian Blvd., Suite 100 • Minden, Nevada 894423

Tel: 888.308.1134 • Fax: 775.783.1548