FULLY AUTOMATED ANALYZERS
FOR THE DETERMINATION
OF THE ERYTHROCYTE
SEDIMENTATION RATE

ESR IN 20 SECONDS

20 SECONDS

www.alifax.com
ESR IN 20 SECONDS BY RED CELL AGGREGATION

EACH SAMPLE is read 1000 times in 20 seconds

20 sec

1 h

CAPILLARY PHOTOMETRY
- Temperature control 37°C
- Independent from Hematocrit value
- No dilution, use of EDTA tube
- Use of the same capillary for all samples
- No influence of vibration or other external factors
- Automated mixing step
- Latex Controls and Calibrators available
- High reproducibility

SEDIMENTATION ESR
- Temperature variability
- Hematocrit influence
- Dilution problems using Sodium Citrate
- Inadequate materials and pipettes variability
- Vibrations and pipettes verticality
- Not standardized sample mixing
- Controls and Calibrators lack
- Poor reproducibility


Alifax technology is classified by CLSI guidelines as an alternative method for ESR (H02-A5 Vol. 31, N.11)

"ESR measurements by TEST1 reflect inflammation better than do those by the Westergen method in patients with malignancy, autoimmune disease, or infection"


YOUNG JOO CHA
MD, Department of Laboratory Medicine, Chung-Ang University Hospital, Seoul, Korea
TEST1

Direct loading from original cell blood counter rack

- NEW AUTOMATIC WASHING SYSTEM
  - 175 μl EDTA blood sample per test
  - Only 800 μl sample requested in the tube
  - Capacity up to 60 samples
  - Direct loading of CBC racks
  - Throughput up to 150 samples/hour
  - Internal bar code reader
  - Bidirectional connection to LIS

TEST1 BCL
SI 195.220/BCL
Up to 60 samples per session with ALIFAX green plastic racks.
Up to 48 samples per session with Beckman Coulter Series LH 700 CBC racks

TEST1 SDL
SI 195.230/SDL
Up to 40 samples per session with ALIFAX yellow plastic racks.
Up to 40 samples per session with Sysmex Series SF, SE, XE CBC racks

TEST1 YDL
SI 195.240/YDL
Up to 40 samples per session with ALIFAX blue plastic racks.
Up to 40 samples per session with Siemens Series ADVIA 120 CBC racks

TEST1 MDL
SI 195.250/MDL
Up to 40 samples per session with Beckman Coulter Series LH 500 CBC racks

TEST1 XDL
SI 195.260/XDL
Up to 40 samples per session with Beckman Coulter Series DxH 800 CBC racks

TEST1 THL
SI 195.210/THL
ROLLER

Manual tube loading also for uncapped and low volume samples

ROLLER 20PN
SI R20-PN

Double circuit for automatic and manual sampling
- Internal rotor with 20 positions
- 175 µl EDTA blood sample automated withdrawal per test
- 100 µl sample requested in the tube for manual withdrawal
- LCD touch screen
- User-friendly software
- External barcode reader

ROLLER 20MC
SI R20-MC

Manual sampling
- Only 30 µl EDTA blood sample
- LCD touch screen
- User-friendly software
- External barcode reader

ROLLER 10PN
SI R10-PN

Manual sampling + Mix
- Only 30 µl EDTA blood sample
- Internal rotor with 10 positions for standardized mixing procedure
- LCD touch screen
- User-friendly software
- External barcode reader

ROLLER 20LC
SI R20-LC

Automatic sampling
- 175 µl EDTA blood sample per test
- 800 µl sample requested in the tube
- 18 samples
- Simplified needle replacement
- Automated washing
Jo Plus is conceived for mega laboratories with high routine volumes equipped with Laboratory Automation System (LAS).

Jo Plus is based on the same Test1 family technology.

- 120 samples processed in about 1 hour
- 175 μl EDTA blood sample per test
- Results available in 30 seconds

**JO PLUS**

SI 804.100

- **Power supply:** 115-230 VAC (SMPS), 50/60 Hz
- **Power consumption:** 66VA
- **Size:** 94 x 30 x 42 cm (W,D,H)
- **Weight:** 16 Kg
LATEX CONTROLS

Three levels to guarantee: precision, accuracy, repeatability

6 TESTS

30 TESTS

SI 305.100-A (Greiner tubes)
SI 305.102-A (Sarstedt tubes)

SI 305.300-A (Greiner tubes)
SI 305.302-A (Sarstedt tubes)

SHELF LIFE: From production: 6 months. From the 1st piercing: 6 weeks
STORAGE CONDITIONS: From production: +4-25°C. From the 1st piercing: +4-8°C

EQE KIT

External Quality Evaluation kit Specific for all Alifax ESR analyzers

Third parties international programs available:
- CAP
- LABQUALITY
- NEQAS
- ONEWORLD ACCURACY
- API

SMART CARD

Environmentally friendly cards save storage and transport costs. Only pay for a test when needed.

1,000 tests
4,000 tests
10,000 tests
20,000 tests

TEST1 ROLLER

code SI 195.901
code SI 195.904
code SI 195.910
code SI 195.920

JO PLUS

- - code SI 804.910 code SI 804.920
<table>
<thead>
<tr>
<th>Positions</th>
<th>TEST1</th>
<th>ROLLER 20 PN</th>
<th>ROLLER 20 LC</th>
<th>ROLLER 10 PN</th>
<th>ROLLER 20 MC</th>
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</thead>
<tbody>
<tr>
<td>Sampling</td>
<td>Up to 60</td>
<td>Up to 20</td>
<td>Up to 18</td>
<td>Up to 10 - for mix</td>
<td>Manual</td>
</tr>
<tr>
<td>Throughput</td>
<td>Up to 150/h</td>
<td>Up to 120/h</td>
<td>Up to 100/h</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>TTFR</td>
<td>5’</td>
<td>5’</td>
<td>5’</td>
<td>4’</td>
<td>4’</td>
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<tr>
<td>TTR</td>
<td>20”</td>
<td>30”</td>
<td>20”</td>
<td>18”</td>
<td>18”</td>
</tr>
<tr>
<td>Min Volume</td>
<td>800 µl</td>
<td>800 µl (auto)</td>
<td>800 µl</td>
<td>100 µl</td>
<td>100 µl</td>
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<tr>
<td>Testing volume</td>
<td>175 µl</td>
<td>175 µl (auto)</td>
<td>175 µl</td>
<td>30 µl</td>
<td>30 µl</td>
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<tr>
<td>Internal mixing</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✗</td>
</tr>
<tr>
<td>Thermostatation 37°C</td>
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<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Internal washing</td>
<td>✔️</td>
<td>✔️</td>
<td>✗</td>
<td>✔️</td>
<td>✗</td>
</tr>
<tr>
<td>Barcode reader</td>
<td>✔️</td>
<td>(ext. optional)</td>
<td>(ext. optional)</td>
<td>(ext. optional)</td>
<td>(ext optional)</td>
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<tr>
<td>Printer</td>
<td>✔️</td>
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<td>✔️</td>
<td>✔️</td>
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<tr>
<td>LIS bidirectional connection</td>
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<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Dimensions (cm) W,D,H</td>
<td>49 x 54 x 60</td>
<td>24 x 39 x 46</td>
<td>32 x 56 x 58</td>
<td>24 x 39 x 46</td>
<td>24 x 39 x 46</td>
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<tr>
<td>Weight (Kg)</td>
<td>47</td>
<td>16</td>
<td>23,2</td>
<td>13,5</td>
<td>11</td>
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<tr>
<td>Daily maintenance</td>
<td>5’</td>
<td>5’</td>
<td>5’</td>
<td>5’</td>
<td>5’</td>
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<tr>
<td>Maintenance</td>
<td>1 year or 30,000 tests</td>
<td>1 year or 30,000 tests</td>
<td>1 year or 30,000 tests</td>
<td>1 year or 30,000 tests</td>
<td>1 year or 30,000 tests</td>
</tr>
<tr>
<td>Operator time</td>
<td>1’</td>
<td>&lt; 2’</td>
<td>&lt; 2’</td>
<td>30’ / sample</td>
<td>30’ / sample</td>
</tr>
</tbody>
</table>
NEW ESR SYSTEM GENERATION
ERYTHROCYTE SEDIMENTATION RATE


