ERYTHROCYTE SEDIMENTATION ANALYZER

ESR results delivered at the speed of healthcare

www.sysmex.com/us
As the global leader in hematology, Sysmex has carefully selected a partnership with the leader in ESR testing.*

* Distributed by Sysmex America, Inc.

Walk away from ESRs
Automated Results in 20 Seconds

If you need to do more with less—we have a solution

In today's rapidly changing healthcare landscape, laboratory directors are now being tasked to make the most of their staff's limited time. Efficiency is critical as physicians demand fast turnaround, which is vital to maintain a high level of patient care.

Faster, fewer errors, and better resource management

Alifax Capillary Photometry Technology is capable of providing ESR results in 20 seconds by measuring the kinetics of red blood cell aggregation.

- Alifax technology is recognized by the CLSI guideline as an alternative method for ESR and included in external quality assessment and proficiency testing programs.
- The Alifax system delivers faster results with less demand on staff time.
- Requires no reagents and no inventory management, and it can help you immediately optimize ESR testing while making the most of your resources.

With elegant precision, Alifax capillary photometry technology is designed to overcome the problems of typical instruments performing ESR testing based on sedimentation, and offers faster TAT.
New ESR system generation

By measuring the kinetics of red cell aggregation, Alifax Capillary Photometry Technology is capable of providing ESR results in 20 seconds. This technology is recognized by CLSI as an alternative ESR method and is included in External Quality Assurance and Proficiency Testing programs.

**EACH SAMPLE IS READ 1000 TIMES IN 20 SECONDS**

![Aggregation after 20 seconds](image)

Alifax Capillary Photometry Technology overcomes the variables and limitations of the sedimentation method listed in the CLSI document*.

<table>
<thead>
<tr>
<th>SEDIMENTATION</th>
<th>CAPILLARY PHOTOMETRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature variability</td>
<td>Temperature control 37°C</td>
</tr>
<tr>
<td>Hematocrit influence</td>
<td>Independent of hematocrit value</td>
</tr>
<tr>
<td>Dilution problems using sodium citrate</td>
<td>No dilution, EDTA tube sampling</td>
</tr>
<tr>
<td>Inadequate materials and pipette variability</td>
<td>Use of the same capillary tube for all samples</td>
</tr>
<tr>
<td>Vibration and pipette verticality effects</td>
<td>No vibration or vertical alignment influence</td>
</tr>
<tr>
<td>Non-standardized sample mixing</td>
<td>Automated mixing step</td>
</tr>
<tr>
<td>No controls and calibrators for quality assurance</td>
<td>Latex controls and calibrators for quality assurance</td>
</tr>
<tr>
<td>Poor reproducibility</td>
<td>High reproducibility</td>
</tr>
</tbody>
</table>

*Clinical Laboratory and Standard Institute (formerly NCCLS) Procedures for the Erythrocyte Sedimentation Rate Test; Approved Standard - Fifth Edition H02-A5, Vol.31 No.11 2011*
ESR solutions made for your lab

Alifax Test 1™ ESR analyzer
- 175 µl EDTA sample
- Only 800 µl min. sample in tube
- 40 sample tube capacity
- Direct loading of CBC racks
- Throughput up to 160 samples/hour
- Internal bar code reader
- Bidirectional LIS connectivity
- Latex controls

Roller series

Alifax Roller 20PN™ ESR analyzer
- Automatic or manual sampling from uncapped tubes
- Internal rotor with 20 positions for standardized mixing and testing
- 100 µl EDTA manual sample; 100 µl min. sample in tube
- 175 µl EDTA automated sample
- LCD touch screen display
- User-friendly software
- Automatic washing system
- Latex controls

Alifax Roller 20MC™ ESR analyzer
- Only 30 µl EDTA sample
- Manual sampling from uncapped tubes
- LCD touch screen display
- User-friendly software
- External barcode reader
- Latex controls

Alifax Roller 10PN™ ESR analyzer
- Only 30 µl EDTA sample
- Manual sampling from uncapped tubes
- Internal rotor with 10 positions for standardized mixing procedure
- LCD touch screen display
- User-friendly software
- External barcode reader
- Latex controls
Consumables and specifications

Latex controls*  
* SHELF LIFE: from production: 6 months. From the first piercing: 6 weeks. 
STORAGE CONDITIONS: from production: +4 to 25°C. From first piercing: +4 to 8°C. 
Order specifically for Greiner or Sarstedt tubes.

Three Levels to Assure: Precision, Accuracy and Repeatability

Latex Control Kit  
6 tests

Latex Control Kit  
30 tests

Alifax® smart test card  
* Available for: 1,000 tests, 4,000 tests, 10,000 tests, 20,000 tests

Test Cards for Alifax family of ESR Analyzers

Alifax® smart test card

Environmentally friendly: test cards save storage transport, and ‘per test’ costs.

Alifax ESR analyzer comparison chart

<table>
<thead>
<tr>
<th>Test 1</th>
<th>Roller 20 PN</th>
<th>Roller 10 PN</th>
<th>Roller 20 MC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample Loading Positions</td>
<td>Up to 40</td>
<td>20</td>
<td>10 - for mix</td>
</tr>
<tr>
<td>Throughput</td>
<td>Up to 160/hr</td>
<td>Up to 120/hr</td>
<td>N/A</td>
</tr>
<tr>
<td>Time to First Result</td>
<td>5 min</td>
<td>5 min</td>
<td>4 min</td>
</tr>
<tr>
<td>Time to Result</td>
<td>20 sec</td>
<td>30 sec</td>
<td>18 sec</td>
</tr>
<tr>
<td>Minimum Sample Volume</td>
<td>800µl</td>
<td>800µl (auto)</td>
<td>100µl</td>
</tr>
<tr>
<td>Sample Test Volume</td>
<td>175µl</td>
<td>175µl (auto)</td>
<td>100µl (manual)</td>
</tr>
<tr>
<td>Internal Mixing</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Temperature Controlled at 37°C</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Internal Washing</td>
<td>N/A</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>Barcode Reader</td>
<td>Yes</td>
<td>External (Optional)</td>
<td>External (Optional)</td>
</tr>
<tr>
<td>Printer</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Bidirectional LIS Communication</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimensions (in)</td>
<td>20 x 19.7 x 23.6</td>
<td>9.5 x 15 x 17.7</td>
<td>9.5 x 15 x 17.7</td>
</tr>
<tr>
<td>Weight (lb)</td>
<td>100</td>
<td>35</td>
<td>30</td>
</tr>
<tr>
<td>Daily Maintenance</td>
<td>5 min</td>
<td>5 min</td>
<td>5 min</td>
</tr>
<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>
</tr>
</tbody>
</table>