

Erythrocyte Sedimentation Rate • New Alcor iSED ESR Analyzer

Notification Date: 03 DEC 2018

Effective Date: 03 DEC 2018

Erythrocyte Sedimentation Rate (ESR) using Alcor iSED Analyzer

Effective December 3, 2018 a new Alcor iSED analyzer will be implemented for the sedimentation rate testing (SED Rate). The sedimentation rate is used as a screening test for the presence of infection. Also to diagnose and monitor the progress of chronic inflammatory processes such as rheumatoid arthritis, temporal arteritis, or polymyalgia rheumatica. The iSED utilizes photometric rheoscopy as its methodology, and has been found to have greater than 95% correlation with the Westergren method, which is considered the reference method. The Alcor iSED analyzer directly measures the length of the red blood cells aggregation at which the red blood cells will sediment in the Westergren tube. The specimen collection, and specimen handling will not change. The iSED has an automated 3 minute mix cycle to homogenize the sample before the testing. Proper mixing of the blood sample is a critical factor to guarantee a proper measurement of ESR.

Limitations:

- Extreme lipemia will interfere and result in instrument error.
- Hemolysis will affect results
- Cannot perform on patient with Sickle Cell Anemia or Multiple Myeloma

The reference range has been updated to the following. Reference Table 1.

Table 1

<i>Sedimentation Rate Reference Values (mm/hr)</i>	
Male under 50 years old	< 15
Male over 50 years old	< 20
Female under 50 years old	< 20
Female over 50 years old	< 30

Note: No reference range for newborn to puberty (<15 yrs).

REFERENCES / Alcor iSED SED Analyzer

[SBMF online Test Directory](#)

Questions: Please contact **CLIENT SERVICES 800-950-7263**

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