



ERYTHROCYTE SEDIMENTATION RATE ANALYZERS

Efficient ESR Solutions for Your Laboratory

CHALLENGING TIMES IN THE LABORATORY CALL FOR SIMPLE SOLUTIONS

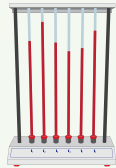
48 million erythrocyte sedimentation rate (ESR) tests are performed in the US every year¹. Traditional ESR testing requires significant hands-on time, and it is harder than ever to find laboratory personnel. ALCOR[®] Scientific's iSED[®] analyzers are designed to make ESR testing as easy and efficient as possible, providing results within 20 seconds with minimal hands-on time.



Results within 20 seconds



Walk-away automation



Highly correlated to the Westergren Method



Sampling from primary EDTA tube



100 µl aspirated volume

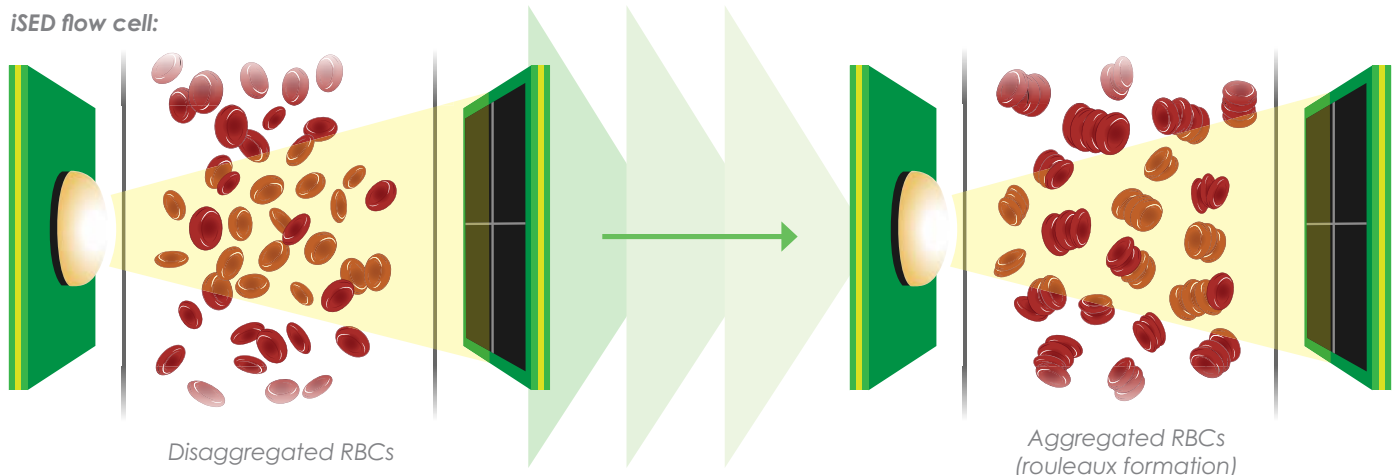
ESR RESULTS IN SECONDS

ALCOR Scientific's iSED technology utilizes photometric reading to quantify the rouleaux formation, which is the earliest and most critical phase of red blood cell sedimentation². An EDTA blood sample is injected into the iSED analyzer's flow cell which causes the red blood cells to disaggregate. The flow cell sensors capture the difference in light transmission over time as the injected red blood cells begin to re-aggregate.

The technical innovation of iSED ESR analyzers consists of "directly" measuring the aggregation of the red blood cells, whereas the traditional methods "indirectly" measure the aggregation of the red blood cells by recording the length at which the red blood cells settle in a Westergren tube.

The iSED technology is highly correlated to the Westergren method and provides results in mm/hr. Test results are available in just 15-20 seconds without the drawbacks and inconvenience of traditional ESR testing.

iSED flow cell:



1. ALCOR Scientific internal data.

2. Fabry, T. L. Mechanism of erythrocyte aggregation and sedimentation. *Blood*. 1987;70(5):1572-1576.



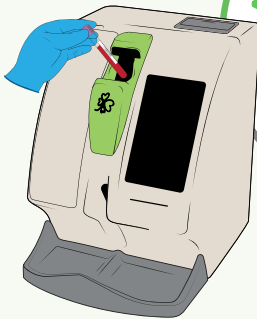
ISED FULLY-AUTOMATED METHOD

1



Primary EDTA sample tube

2



iSED ESR Analyzer

< 3 seconds
of hands on time
per sample

3



ESR Results

Results within
20 seconds

Up to
94%
Reduction in
turnaround time
VS. WESTEREGREN METHOD³

LIMITED IMPACT OF COMMON VARIABLES THAT AFFECT TRADITIONAL ESR TEST RESULTS

HEMATOCRIT



VIBRATIONS



MCV



PIPETTE ERRORS



HUMIDITY



TEMPERATURE



QUALITY CONTROL

SEDiTROL® Quality Controls are bi-level, human-based whole blood controls in ready-to-use, barcoded tubes. All SEDIROL customers have access to iQAP, ALCOR Scientific's online peer-to-peer quality assurance program. The iQAP program has a robust network of users and allows laboratories to generate reports on demand.



3. ALCOR Scientific internal data.



WHICH ANALYZER IS
RIGHT FOR YOU?

iSED®



miniSED®



iSED is best for labs that...

- Receive more than one sample at a time
- Require the least amount of hands-on time
- Prefer automated sample mixing

miniSED® is best for labs that...

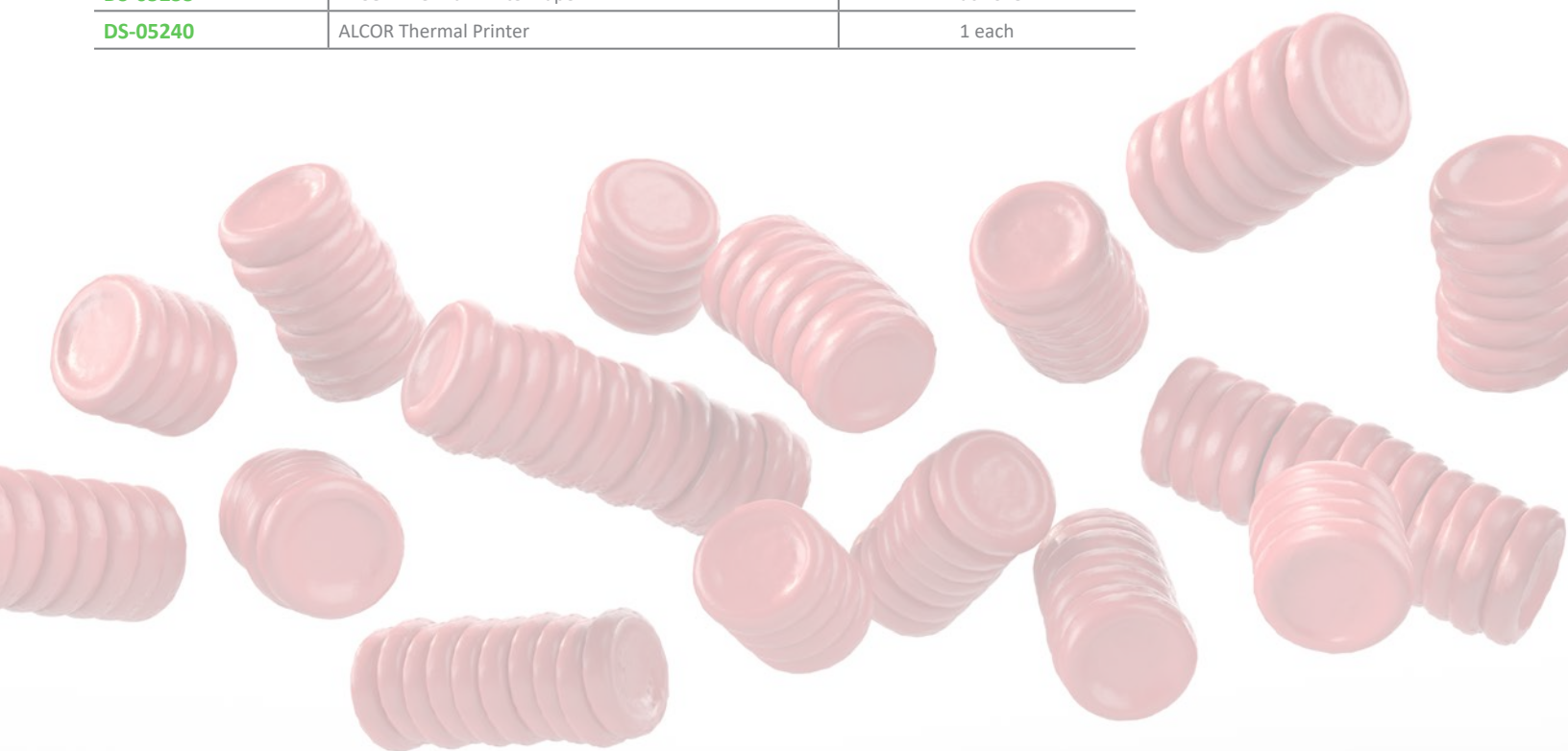
- Perform ESR testing less frequently
- Run single samples

Sample Capacity	20 samples (random access loading)
Sample Type	Primary EDTA tube; pediatric tube compatible
Sample Volume	500 µl total volume (100 µl aspirated volume)
Test Throughput	Up to 180 results / hour
Sample Mixing	Automatic onboard
Test Time	Results within 20 Seconds
Barcode Reader	Internal
Dimensions (L x W x H)	36 x 27 x 35 (cm) 14.17 x 10.63 x 13.78 (in)
Data Storage Capacity	>4 million
LIS Connectivity	LAN TCP/IP or Serial RS232 DB9 port
Printer	Internal

Sample Capacity	1
Sample Type	Primary EDTA tube; pediatric tube compatible
Sample Volume	500 µl total volume (100 µl aspirated volume)
Test Throughput	Up to 180 results / hour
Sample Mixing	External before sample is loaded
Test Time	Results in 15 seconds
Barcode Reader	Internal
Dimensions (L x W x H)	36 x 19 x 24 (cm) 14 x 7.5 x 9.5 (in)
Data Storage Capacity	>4 million
LIS Connectivity	LAN/IP
Printer	Optional external printer



Product Information		
Catalog #	Description	Unit
112-00101	iSED ESR Analyzer	1 each
112-01017	miniSED ESR Analyzer	1 each
112-00250	Test card; 250 test credits	1 each
112-01000	Test card; 1,000 test credits	1 each
112-02000	Test card; 2,000 test credits	1 each
112-05000	Test card; 5,000 test credits	1 each
DSC06	SEDiTROL Quality Control (Levels 1 & 2)	Pack of 6 x 4.0 mL
DSC01		Pack of 2 x 4.0 mL
112-12-001	iWASH [®] Wash Fluid	Pack of 4
112-12-003	miniWASH [®] Wash Fluid	Pack of 4
112-12-002	iWASTE [®] Container	Pack of 24
112-12-005		Pack of 4
112-12-004	miniWASTE [®] Container	Pack of 4
DS-05233	ALCOR Thermal Printer Paper	Pack of 5
DS-05240	ALCOR Thermal Printer	1 each



ORDERING

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