Imagine Life with True Automation

ADVIA 2120i Hematology System

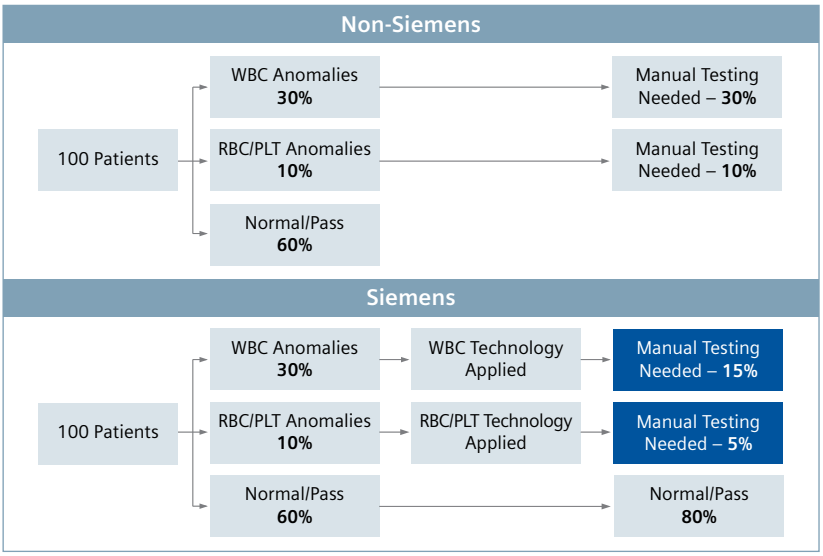
Answers for life.

SIEMENS

Practical Automation to Streamline Workflow

Only the ADVIA® 2120i System gives you Practical Automation—the unique ability to eliminate the majority of manual steps commonly performed for maximum speed and productivity.

- Proven technology, reference methods, and onboard delta checks reduce manual slide reviews
- Fast, convenient, rack-based sampling: Any tube. Any time.
- High throughput of up to 120 samples per hour
- Results that are right the first time
- Efficient auto-validation procedures



ADVIA 2120i's WBC and RBC/PLT technology and high specificity reduce the need for additional manual testing.

Practical Automation

The Only Hematology System with Automation from Start to Finish

Only the ADVIA 2120i Hematology System can truly automate your hematology lab without the need for large track-based systems, expensive stains, or reflexive testing. At Siemens Healthcare Diagnostics, we call this Practical Automation.

The ADVIA 2120i System streamlines workflow by eliminating the majority of manual steps commonly performed to maximize productivity. It delivers the gold standard in testing methodology for optimum results while offering the simplicity and flexibility you need for easy integration into your lab. Put the power of true automation to work for you.

Ease of Use to Boost Productivity

The ADVIA 2120i System simplifies and streamlines all aspects of testing, allowing you to work faster and more efficiently so you can focus on other critical tasks.

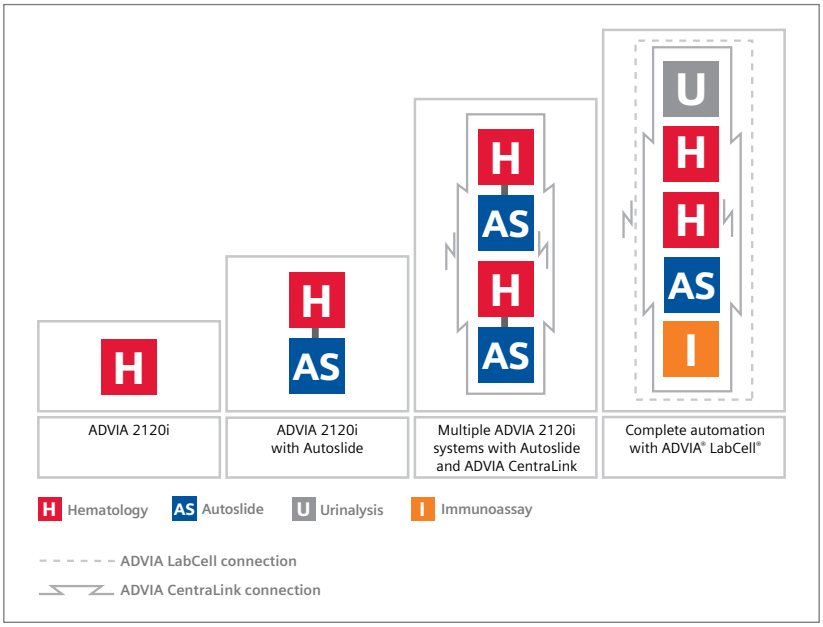
- Touch-screen monitor
- Unique reagent Time Pacs
- Three modes of aspiration: autosampler, open mode, and unique manual closed-tube sampling
- Unique Unifluidics™ technology—reduced fluidics, no pinch valves, automated daily cleaning
- Completely automated start-up

ADVIA 2120i System's rack-based sampling lets you simply load any tube, any time.

Scalable Solutions to Maximize Productivity

Expanding your capabilities is easier and more affordable than ever with the ADVIA 2120i System. With integrated and automated solutions from Siemens, you can scale from stand-alone instrument to complete automation as your productivity needs change.

- Optional ADVIA Autoslide Slide Maker Stainer gives you up to 96 high-quality slides per hour to scale up your productivity
- Network connectivity via ADVIA CentraLink® Networking Solution allows data management consolidation and QC management from any client workstation
- From truly practical automation to complete automation with the same instrument



ADVIA Hematology Systems give you real-world automation solutions.

Scalable Solutions

True Efficiency. True Productivity. True Automation.

The ADVIA 2120i System eliminates manual steps to maximize speed and efficiency. Discover true power with true Practical Automation—only with the ADVIA 2120i System, only from Siemens Healthcare Diagnostics.

ADVIA Autoslide for SMARTer Slide Staining

- SMART Stain—single-use reagents for each slide (Wright, Wright-Giemsa, and MGG)
- SMART Sample—aspirates 75 mL sample based on user-defined criteria
- SMART Smear—classic wedge slide with no sample carryover
- Small footprint and no track
- Increases productivity of lab technicians

Multi-species Capability for More Flexibility

- 21 species with capability for over 50 species using random-access processing
- Customizable species-specific flagging
- Playback feature for sample re-analysis
- Superior differentiation between platelets and RBCs

Fluid Software Options to Optimize Patient Management

- CSF
- Body fluids

First-Pass Accuracy for Quality Results

The ADVIA 2120i System uses gold-standard peroxidase staining for WBC differential testing.

- Fewer reruns
- Lowest overall review rate
- Faster turnaround time
- Superior linearity—0.02 – 400k

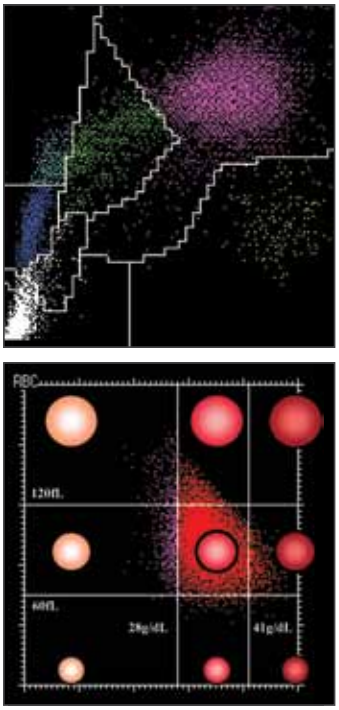
The system also offers state-of-the-art technology for RBC, reticulocyte, PLT, and CSF testing.

RBC
- True RBC differential
- Consistent morphology
- Reduced manuals
- Unique dual-hemoglobin measurement capability—eliminates interference from lipemia

Automated Reticulocyte Analysis
- Direct measurement, not calculated
- Excellent in pediatric and dialysis populations

PLT
- Two dimensions—size and refractive index
- Measures up to 60 fL
- Includes large platelets in count
- Excludes fragments and microcytic RBCs

CSF
- Results in <5 minutes
- Linear to zero with three-part differential
- Automated counting provides quality control for consistency of results



ADVIA 2120i System's patented cell separation technology provides unique and detailed blood cell differentials.

First-Pass Accuracy

Advanced Testing Technology to Enhance Patient Care

You can rely on the ADVIA 2120i System to get the right results the first time. The system's comprehensive portfolio of diagnostic assays is designed to optimize patient management and enhance patient care.

- Maximizes the effectiveness of costly platelet transfusions with accurate results the first time—even at very low platelet levels
- Differentiates microcytic anemias with RBC and reticulocyte technology

"A CHr of less than 27.5 pg is a more accurate hematological indicator of iron deficiency compared with hemoglobin of less than 11 g/dL."[1]

Journal of the American Medical Association

Advanced Technology

Specifications

Auto Sampler Option	
150-Sample Capacity	15 racks with 10-tube capacity
Compatible Tube Types	VACUTAINER,® HEMOGARD,® Monovette,® Venoject® II, Venosafe,® Vacuette,® Monoject®
Bar Code Reader	Up to 14 digits
Automatic Discrimination of Label Codes	Codabar, Interleave 2 of 5 with and without check digit, Code 39, Code 128 EAN and JAN (8 and 13)

Precision			
Parameter	Mean	SD	CV
WBC	7.5	0.20	2.70
RBC	5.0	0.06	1.20
HB	15.0	0.14	0.93
MCV	90.0	0.70	0.78
PLT	300.0	8.80	2.93
RETIC %	2.0	0.25	12.50

Performance Specifications	
Linear Ranges	
WBC	0.02 – 400 x 10^3/µL
RBC	0.0 – 7.0 x 10^6/µL
PLT	5.0 – 3500 x 10^3/µL
HB	0.0 – 22.5 g/dL
RETIC	0.2 – 24.5%

The ADVIA 2120i System significantly reduces or eliminates the need for:

- Manual Differentials
- Platelet Scans
- Manual Platelet Counts
- RBC Morphology Scans
- Plasma Replacement
- Spun Hematocrit
- CSF WBC Count
- CSF RBC Count
- CSF Differential
- Body Fluid TNC Count
- Body Fluid RBC Count
- RBC Fragment Count
- Large Platelet Count
- WBC Dilutions
- Buffy Coats
- Platelet Clump Interference on WBC
- Enumerated NRBCs
- Manual Reticulocyte Counts

ADVIA 2120i—Imagine Life with True Practical Automation

References

1. Ullrich, Christina MD; Wu, Ann MD; Armsby, Carrie MD; Rieber, Sarah MPH; Wingerter, Sarah MD; Brugnara, Carlo MD; Shapiro, David PhD; Bernstein, Henry DO. Screening Healthy Infants for Iron Deficiency Using Reticulocyte Hemoglobin Content. JAMA 2005;294(8):924-930.

Siemens Healthcare Diagnostics, a global leader in clinical diagnostics, provides healthcare professionals in hospital, reference, and physician office laboratories and point-of-care settings with the vital information required to accurately diagnose, treat, and monitor patients. Our innovative portfolio of performance-driven solutions and personalized customer care combine to streamline workflow, enhance operational efficiency, and support improved patient outcomes.

Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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NAME OF PRODUCT	ADVIA 2120i Hematology System
	
Name	ADVIA 2120i Hematology System
SMN	11219529
AKL	AKL 20205220038
Date of Expiry	
BRAND / MANUFACTURER	Siemens Healthcare Diagnostics Inc.
MODEL / TYPE	2120i
COUNTRY OF ORIGIN	Ireland
FACTORY OF ORIGIN	Ireland
OUTSOURCE EXTERNAL MANUFACTURE (OEM)	-
PRODUCT'S CERTIFICATION	
FDA Clearance	Yes
CE Mark (MDD)	Yes
Certificate	TUV IEC 61010
Certificate	ISO 13485:2003
TECHNICAL SPECIFICATIONS	
CLIA CLASSIFICATION	Yes
Intended area of use	Central lab and Emergency Lab
Automated/semiautomated	Automated
Measurement	
Red cell technology	Laser technology provides direct cellular Hgb for RBCs and reticulocytes
White cell technology	- Peroxidase WBC: peroxidase cytochem. staining with light scatter and absorption, - Baso: cytochem. stripping with two-angle laser light scatter
Platelet technology	- 2-D PLT analysis uses two dimensions size and refractive index - Measures up to 60 fL - Includes large platelets in count - Excludes fragments and Microcytic RBCsCSF
Operation	
Sampling mode - manual closed	Yes
Sampling mode - manual open	Yes
Sampling mode - automatic	Yes
Minimum specimen volume (aspiration volume) open/Closed/Sample dead volume closed	175uL
Autosampler load capacity	15 racks with 10-tube capacity
Flags	- WBC: Atypical LYMPH, Blasts, Immature Granulocytes, Left Shift, Myeloperoxidase Deficiency - RBC: ANISO, HC VAR, HYPER, HYPO, Large Platelets, MACRO, MICRO, NRBC, Platelet Clumps, RBC Fragments, RBC Ghosts
Test menu	- 36 Parameters: WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, MPV, PDW, BAS#, BAS%, LYM#, LYM%, MON#, MON%, NEU#, NEU%, EOS#, EOS%, CHCM, MPV, RDW, HDW, LUC %, LUC#, RET%, RET#, CHr, CHCMr, cellular HGB, MCVr, MPXI, PMN, MN, %Blasts - CSF: WBC, RBC, PMN, MN, NEU, LYM, MON - Laboratory Use Only: MPC, PCDW, MPM, PMDW, RDWr, CHDWr, HDWr - Body Fluids (Pleural, Peritoneal, Dialysate): RBC, TNC
Retics	Yes
Other tests	IRF, CSF EOS

Linearity: WBC count/RBC coun	- WBC 0.02 - 400.0 x 103/µL - RBC 0.0 - 7.00 x 106/µL
Linearity: Hemoglobin/Platelet	- HGB 0.0 - 22.5 g/dL - PLT 5.0 - 3.500 x 103/µL
Linearity: MCV (fL) or Hct (%)	30-180 (MCV)
Precision: WBC count/RBC coun	- WBC: <2.7% - RBC: <=1.2%
Precision: Hemoglobin/Platelet	- HGB: <=0.93% - PLT: <=2.93%
Precision: MCV (fL) or Hct (%)	- MCV: <=0.78%
Interfering substances:WBC	Incomplete RBC lysis (peroxidase only)
Interfering substances:RBC	Cold agglutinins, extreme sickle cell
Interfering substances:MCV or Hct	_
Interfering substances:Platelet	_
Interfering substances:Hemoglobin	Extreme lipemia, high WBC, extremely high bilirubin interference with colorimetric Hgb only, none with cellular Hgb
Interfering substances:differential	Incomplete RBC lysis, complete myeloperoxidase deficiency
Quality control material	Controls (L,M,H) and Calibrators.
Automation ready	Yes
Sample Handling	
Types of sample (body fluids/whole blood)	Whole blood, pre-diluted blood, Body fluids
Microsample capability	Yes
Reflex slide making option	Yes
Barcode identification	Yes
Reagent Handling	
Reagent recognition	Yes
Reagents onboard	Yes
System Fluid	
Cleaning and rinsing	Yes
Throughput	
CBC / CBC Diff / CBC Diff retics	- CBC 120 samples/hour - CBC/RETIC 74 samples/hour - CBC/DIFF 120 samples/hour - RETIC 74 samples/hour - CBC/DIFF/RETIC 74 samples/hour
Software	
User Interface & Connectivity	User-defined windows, reports, and ranges based on age and sex for normal range, panic range, rerun range, and delta check criteria. Bidirectional and host query communication protocols.
Print output	Full page color prinitng, Windows
Host /middleware connectivity	LIS interface, Centralink Middleware for networking, automation and Hematology
QC program	3D bar graph, Levey-Jennings plot, SD graphs, table format, remote QC, ILQC program, patient moving average
Data storage	Database: 10,000-patient storage capacity
Physical	
Dimensions (w x d x h)	- with Autosampler (including reagents) 1410mm (W) x 680mm (D) x 860mm (H) - without Autosampler (including reagents) 810mm (W) x 680mm (D) x 860mm (H)
Weight	- Analytical module, with Autosampler 193 kg / 425 lbs - Analytical module, without Autosampler 163 kg / 360 lbs