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ADVIA® 360 Hematology System

Technical Specifications

Product Specifications

Technology/Parameters	Volumetric impedance method/22 parameters, including 3-part WBC-differential: WBC, LYM, MID, GRA, LYM%, MID%, GRA%, RBC, MCV, HCT, HGB, MCH, MCHC, PLT, MPV, RDW-SD, RDW-CV, PCT, PDW-SD*, PDW-CV*, P-LCR*, P-LCC*
Sample stability	Long-term sample stability studies on blood specimens drawn in K2- and K3-EDTA collection tubes at room temperature showed no significant clinical variation for all parameters between 30 minutes and 7 hours post-phlebotomy. MPV results can show instability in the first 2 hours but are stable afterwards.
Sample modes/volumes	Manual closed tube/100 µL Manual open tube/100 µL
Throughput	Up to 60 tests/hour
Data management	Database: 10,000-patient storage capacity
Quality control	24 QC lots, Levey-Jennings graphs, bar-code option to load QC target values, and QR code-reading for reference data input

Workstation

Printout	Integrated ticket printer; optional external, Microsoft Windows-compatible printers
Optional external keyboard	PS/2 or USB
Handheld bar-code reader	Standard
User interface	8-inch LCD touchscreen, color graphics
Interfacing capabilities	RS232, USB, Ethernet; multilingual user interface

Physical Requirements/Room Environment

Electrical power	Dedicated line, voltage selectable for single phase, 100 VAC (6 amps)–240 VAC (3 amps)
Frequency	47–63 Hz
Temperature	Operating: 15–30°C
Storage	5–35°C
Relative humidity	Operating: 45–85% (noncondensing)
Waste disposal	10 L or 20 L tracked waste container or direct waste feed into main drainage. Treat as potential biohazard.

Weight and Dimensions

Weight	17.85 kg/39.35 lb
Dimensions	36 (h) x 31.6 (w) x 49.2 (d) cm; 14.4 (h) x 12.5 (w) x 19.7 (d) in

Additional Specifications

Three cyanide-free reagents	Diluent, Lyse, and Cleaner
User languages	Bulgarian, English, French, German, Greek, Indonesian, Italian, Polish, Portuguese (Brazil), Romanian, Russian, Slovakian, Spanish (Argentina), Turkish

*Parameter not approved for measurement in the U.S.

Answers for life.

ADVIA 360 Hematology System

Accuracy

Parameter	Difference Criteria		Evaluation Levels	
	Absolute	Percent	Low Range	High Range
WBC (10^3/µL)	0.30	6.00%	0.00	85.00
GRA% (%)	3.00	10.00%	0.00	100.00
LYM% (%)	3.00	10.00%	0.00	100.00
MID% (%)	3.00	10.00%	0.00	40.00
RBC (10^6/µL)	0.15	6.00%	0.00	8.00
HGB (g/dL)	0.30	6.00%	1.00	25.00
MCV (fl)	1.00	6.00%	50.00	120.00
RDW (%)	0.50	6.00%	8.00	20.00
PLT (10^3/µL)	15.00	8.00%	0.00	1000.00
MPV (fl)	0.50	10.00%	5.00	30.00

Precision

Parameter	Repeatability		Within-device Precision	
	SD	%CV	SD	%CV
WBC (10^3/µL)	<0.18	<2.7	<0.40	<4.0
GRA% (%)	<3.5	<8.0	<3.5	<8.0
LYM% (%)	<3.1	<8.0	<3.1	<8.0
MID% (%)	<2.0	<17.0	<2.0	<17.0
RBC (10^6/µL)	<0.11	<1.7	<0.15	<2.5
HGB (g/dL)	<0.20	<2.0	<0.22	<2.4
MCV (fl)	<1.0	<1.7	<1.20	<2.0
RDW (%)	<0.4	<2.5	<0.45	<3.0
PLT (10^3/µL)	<23	<6.0	<27	<7.0
MPV (fl)	<0.45	<8.7	0.5	<10

Linearity and Reportable Ranges

Parameter	Determination (R^2)	Nonlinearity Absolute Error	Nonlinearity Relative Error	Reportable Low	Reportable High
WBC (10^3/µL)	>0.95	<0.80	<3.0%	0.0	85.0
HGB (g/dL)	>0.95	<0.27	<3.0%	1.0	25.0
RBC (10^6/µL)	>0.95	<0.20	<3.0%	0.00	8.00
PLT (10^3/µL)	>0.95	<35	<3.0%	0	1000

Carryover and Reportable Ranges

Parameter	Maximum Carryover (%)	Reportable Low	Reportable High
WBC (10^3/µL)	<1.0	0.2	83.0
HGB (g/dL)	<0.8	1.0	23.0
RBC (10^6/µL)	<0.5	0.4	7.70
PLT (10^3/µL)	<1.0	11	975

Learn more about the ADVIA® 360 System or the entire family of scalable Siemens hematology systems.

Visit www.siemens.com/hematology, or contact your local Siemens sales representative.

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