

Performance and value

you can count on.

COULTER A^C•T 5diff AL (Autoloader) Hematology Analyzer

Blood Banking Centrifugation Chemistry

Flow Cytometry

Hematology

Hemostasis
Immunoassay
Information Systems
Lab Automation
Molecular Diagnostics

Rapid Diagnostics



COULTER Ac. T 5diff AL (Autoloader)

Automated sample processing for walkaway efficiency

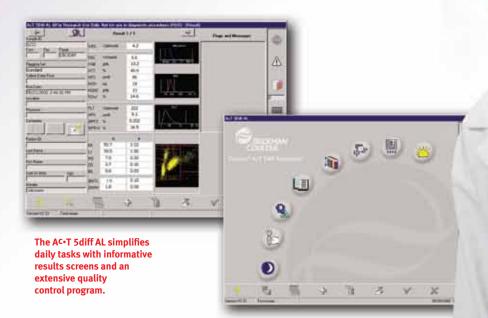
The AC•T 5diff AL significantly improves sample handling by eliminating manual sample loading – a feature that not only saves time, but also lowers operational costs and increases your lab's overall workflow efficiency. In addition, the software enables laboratories to upload QC assay values and download IQAP data automatically, which enhances Quality Assurance program management while requiring less manual manipulation of data.



Easy-to-use data management system includes on-board quality assurance, patient storage and work lists for pre-assigning patient demographics.

Easy-to-use data management

- · Easy quality control file management
- · Patient storage for streamlined data recall
- Interlaboratory Quality Assurance Program (IQAP)
 complements your lab's in-house quality control efforts
 and increases confidence in your results
- Downloadable IQAP data and uploadable control assay reduce manual data manipulation and save time
- Qualitative flagging speeds review of patient results and decreases turnaround time
- 20 user-definable patient and action ranges for increased flexibility
- Individual log books consolidate and automate record keeping





The AC•T 5diff AL has 100-sample loading capacity.

Easy to Operate

- Integrated autoloader processes 1 to 100 samples, loading up to ten racks (each holding ten 13 x 75 mm tubes) for higher testing capacity – 80 samples per hour
- Two additional tube holders accommodate tubes of varying sizes, such as pediatric tubes, for increased system flexibility during manual mode sampling
- Internal point-of-aspiration barcode reader provides positive sample identification
- STAT interrupt, enables operators to bypass the autoloader and load an emergency sample for prioritized testing
- System recognizes whole blood vs. platelet concentrate and automatically applies the appropriate linearity and reportable ranges
- Comprehensive on-board Help database uses key word searches to help solve problems quickly and easily
- CD-ROM Help software demonstrates system operation and troubleshooting, thus speeding training for new operators
- An external computer with Windows software enables easy operator management
- Intuitive icons make the system easy to operate and streamline testing workflow



Two additional tube holders accommodate tubes of varying sizes.



Specifications



Method and Technologies

Sequential dilution system

Dual focused flow fluid dynamics

CBC Analysis and HGB

Coulter Principle (impedance): counting and sizing
Duplicate counting
Coincidence correction
Pulse editing
Rinse flow system
Spectrophotometry for hemoglobin

5-Part Differential Analysis

Absorbance Cytochemistry with Volume AC•T 5diff Fix and WBC Lyse system

Beckman Coulter AC-T 5diff reagent

Available Parameters

system

IMM%*

Available	Parameters	
WBC	RBC	PLT
NE#	HGB	MPV
NE%	HCT	PCT*
LY#	MCV	PDW*
LY%	MCH	
MO#	MCHC	
MO%	RDW	
EO#		
EO%		
BA#		
BA%		
ATL#*		
ATL%*		
IMM#*		

Sample Handling

53 μL whole blood, CBC/DIFF Mode 30 μL whole blood, CBC Only Mode Universal closed tube sampling system

Quality Control

A^c•T 5diff Control Plus (tri-level/barcoded) A^c•T 5diff Cal (calibrator)

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<u>Parameter</u>	<u>CV</u>	
WBC	<2%	at 10 x 10 ³ cells/μL
RBC	<2%	at 5 x 10 ⁶ cells/μL
HGB	<1%	at 15 g/dL
HCT	<2%	at 45%
PLT	<5%	at 300 x 103 cells/µL
HCT	<2%	at 45%

Accuracy

Correlation r >0.95 for WBC, RBC PLT, HGB, HCT

Positive ID

Internal barcode reader Hand-held barcode reader Codabar Code 39 Code 128 Interleaved 2-of-5 EAN 8

AC-T 5diff AL Reportable Range

<u>Parameter</u>	<u>Range</u>	<u>Units</u>
WBC	0-150	10³/μL
RBC	0-18	10 ⁶ /μL
PLT	0-1900	10³/μL
PLT Concentrate	0-2800	10³/μL
HCT	0-80	%
HGB	0-30	g/dL

Linearity

EAN 13

WBC	0.4-120.0 x 10 ³ /μL
RBC	0.3-8.0 x 10 ⁶ /μL
HGB	1.3-24.0 g/dL
HCT	2.0-67.0%
PLT	10-1000 x 10 ³ /μL
PLT Concentrate	100-1900 x 10 ³ /μl

Dimensions/Weight

Height	54.21 cm	(21.5 in)
Width	81.45 cm	(32.3 in)
Depth	57.73 cm	(22.5 in)
Weight	55 kg	(121.3 lb)
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Reagent System	Part
	Number
A ^C •T 5diff Calibrator	7547175
AC-T 5diff Control Plus	7547198
A ^c •T 5diff Rinse	8547167
A ^c •T 5diff HGB Lyse	8547168
A ^C •T 5diff Diluent	8547169
A ^c •T 5diff WBC Lyse	8547170
A ^C •T 5diff Fix	8547171

Throughput

Up to 80 samples/hour for CBC or CBC/DIFF

Data Management

Auto-sequence run number available 20 flagging set (8 are predefined, 12 can be added)

20 result action ranges with interpretive messages

Customizable report format 5 reporting unit format options RS232C host transmission 10,000 patient result storage

On board quality control (24 control files) Worklist capability for addition of patient demographics

On board help files Control data upload Calibration data upload IQAP download

Sample Stability

CBC 48 hr room temperature DIFF 24 hr room temperature

Operating Temperature

16 to 34°C (61 to 93°F)



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