

**Why Would You Take Any Risks
With Safety or Accuracy?**

**COULTER® Ac•T™ 5diff CP
Hematology Analyzer**

- General Chemistry
- Immunodiagnosics
- Centrifugation
- Disease Management
- Clinical Research
- Hematology**
- Hemostasis
- Lab Automation
- Data Management
- Flow Cytometry
- Primary Care



Make a Move to a Safe, Affordable 5-Part Differential System ... With Cap Piercing.



With its versatile closed tube sampling system, the COULTER AC•T 5diff CP accommodates multiple tube sizes and styles.

The COULTER® AC•T™ 5diff CP (Cap Pierce) hematology analyzer is another member of the growing AC•T 5diff family. Not only does the AC•T 5diff CP system offer 5-part differential testing for the most complete results, it improves operator safety by featuring state-of-the-art cap piercing technology for closed tube sampling.

In addition, the AC•T 5diff CP is remarkably cost-effective. Laboratories that have previously relied on 2-part, 3-part or manual differential analyses can move up to efficient, 5-part differential hematology diagnostics at an affordable price.

To deliver a 5-part differential analysis, the AC•T 5diff CP system employs Absorbance cytochemistry and Volume (A^{CV}) technology. Monocyte, neutrophil and eosinophil populations are identified, using the absorbance patterns produced by differential cytochemical staining of their granules versus volume. Lymphocytes remain unstained, and the basophil population is analyzed on a separate channel using volume gating and selective lysis.

With the convenience of cap piercing and its extensive data management system, the AC•T 5diff CP delivers reliability, accuracy and more consistent patient care every time.

Easy-to-use Windows NT-based data management system which includes on-board quality assurance, patient storage and work lists for pre-assigning patient demographics comes standard with the COULTER AC•T 5diff CP.



Easy-to-Use, Safe Solution.

Cap piercing allows quick and direct access to a closed sample tube — a feature that not only reduces sample handling and saves time, but enhances safety. Automated cap piercing also:

- Eliminates operators' exposure to biohazards
- Increases overall lab efficiency
- Reduces manual processing time

Easy to Operate.

- CBC or CBC Diff mode and patient range selectable from the run screen
- One-step start-up, operation and shutdown
- Accommodates multiple tube sizes for increased system flexibility
- Specially formulated reagents, controls and calibrators for accurate results
- Zero daily maintenance

Easy-to-Use Data Management.

- Automated quality control evaluation reduces manual errors
- Patient storage streamlines data recall
- Automatic calibration saves time
- Interlaboratory Quality Assurance Program (IQAP) complements your lab's in-house quality control efforts and increases confidence in your results
- Qualitative flagging for quicker review of patient results decreases turnaround time
- Twenty user-definable patient and action ranges increases flexibility

Easy On Your Budget.

- Affordable 5-part differential technology
- Efficient use of samples and reagents in CBC and CBC Diff modes
- Compact design with on-board reagents requires minimal bench space
- Automated features translate into lower operational costs
- Optimal balance between clinical utility and cost-effectiveness



The COULTER AC•T 5diff CP's informative results screen and extensive quality control program simplify daily tasks.

Performance You Can Count On.

We continually prove our dedication to our customers through our world-class service and support network. We provide fast, efficient technical support, guaranteed service response time and immediate parts availability. Regardless of which Beckman Coulter systems your lab relies on, you can count on us to ensure that they will continue to operate at peak efficiency for years to come.

Contact your Beckman Coulter representative today for more information on how the AC•T 5diff CP delivers ultimate simplicity, safety and value to your laboratory.

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
- Beckman Coulter A^c•T 5diff reagent system

5-Part Differential Analysis

- Absorbance Cytochemistry with Volume
- A^c•T 5diff fix and WBC lyse system

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#*		
IMM%*		

* For research use only.
Optional parameters available outside US.

Sample Handling

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

Positive ID

Optional bar code reader

- Codabar
- Code 39
- Code 128
- Interleaved 2-of-5
- EAN 8
- EAN 13



Data Management

- Auto-sequence run number available
- 20 patient ranges with 5 programmable ranges for gender and age flagging
- 20 result action ranges with interpretive messages
- 5 reporting unit format options
- 3 report formats with customization
- 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

Quality Control

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

Precision

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

Accuracy

R >0.95 for WBC, RBC, PLT, Hgb, Hct

Reportable Range

Parameter	Reportable Range	Units
WBC	0-100	10 ³ /µL
RBC	0-10	10 ⁶ /µL
PLT	0-1500	10 ³ /µL
HCT	0-80	%
Hgb	0-30	g/dl

Throughput

- Up to 60 samples/hour

Sample Stability

- CBC 48 hr room temperature
- DIFF 24 hr room temperature

Operating Temperature

- 16 to 34°C (60 to 96°F)

Dimensions/Weight

Height	23.0"	(58.0 cm)
Width	17.5"	(44.4 cm)
Depth	19.8"	(50.1 cm)
Weight	80 lbs	(36.2 kg)

A^c•T 5diff Reagent System

	Part Number
A ^c •T 5diff Diluent	8547169
A ^c •T 5diff Hgb Lyse	8547168
A ^c •T 5diff Fix	8547171
A ^c •T 5diff WBC Lyse	8547170
A ^c •T 5diff Rinse	8547167
A ^c •T 5diff Control	7547176
A ^c •T 5diff Calibrator	7547175
A ^c •T 5diff Control Plus	7547198



SIMPLIFY • AUTOMATE • INNOVATE



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