

# COULTER® AC•T™ 5diff CP Specifications

Distributed by: Infolab 1-800-782-9700

Why Would You Take Any Risks  
With Safety or Accuracy?

## COULTER® AC•T™ 5diff CP (Cap Pierce) Hematology Analyzer

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

### Methods and Technologies

Sequential dilution system  
Dual focused flow fluid dynamics  
Coulter Principle (impedance): counting and sizing  
Duplicate counting  
Coincidence correction  
Pulse editing  
Rinse flow system  
Spectrophotometry for hemoglobin  
Beckman Coulter AC•T 5diff reagent system

### 5-Part Differential Analysis

Absorbance Cytochemistry with Volume (A<sup>c</sup>V)  
AC•T 5diff Fix and WBC Lyse system

### 26 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. Not intended for use in diagnostic procedures. Optional parameters available outside US.

### Sample Analysis Characteristics

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

AC•T 5diff Control Plus (tri-level) reagent  
AC•T 5diff Cal (calibrator) reagent  
Automatic Calibration

### Precision

Parameter:	Range:	CV%:
WBC	at 10 x 10 <sup>3</sup> cells/µL	<2
RBC	at 5 x 10 <sup>6</sup> cells/µL	<2
Hgb	at 15g/dL	<1
Hct	at 45%	<2
Plt	at 300 x 10 <sup>3</sup> cells/µL	<5

### Accuracy

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

### Reportable Range

Parameter:	Reportable Range:	Units:
WBC	0-100	10 <sup>3</sup> /µL
RBC	0-10	10 <sup>6</sup> /µL
Plt	0-1500	10 <sup>3</sup> /µL
Hct	0-80	%
Hgb	0-30	g/dL

### Operating Temperature

16 to 34°C (60 to 93°F)

### Dimensions and Weight

Analyzer:  
Height: 23 in (58 cm)  
Width: 17.5 in (44.4 cm)  
Depth: 19.8 in (50.1 cm)  
Weight: 80 lb (36.2 kg)

### Throughput

Up to 60 samples/hour

### AC•T 5diff Reagent System

	Part Number
Diluent	8547169
Hgb Lyse	8547168
Fix	8547171
WBC Lyse	8547170
Rinse	8547167
Calibrator	7547175
Control Plus	7547198



Simplify • Automate • Innovate

Eastern Europe, Middle East, North Africa, South West Asia: Switzerland, Nyon (41) 22 994 0707.  
Australia, Gladsville (61) 2 9844 6000. Canada, Mississauga (1) 905 819 1234. China, Beijing (86) 10 6515 6028.  
Hong Kong (852) 2814 7431, 2814 0481. France, Villepinte (33) 1 49 90 90 00. Germany, Krefeld (49) 2151 33 35.  
Italy, Cassina de' Pecchi (Milan) (39) 02 953921. Japan, Tokyo (81) 3 5404 8424. Latin America (1) (305) 380 4709.  
Mexico, Mexico City (52) 55 560 57770. Netherlands, Mijdrecht (31) 297 230630. Puerto Rico (787) 747 3335.  
Singapore (65) 6339 3633. South Africa/Sub-Saharan Africa, Johannesburg (27) 11 805 2014.  
Sweden, Bromma (46) 8 564 85 900. Switzerland, Nyon 0800 850 810. Taiwan, Taipei (886) 2 2378 3456.  
Turkey, Istanbul (90) 216 309 1900. UK, High Wycombe (44) 01494 441181. USA, Brea, CA (1) 800 352 3433, (1) 714 993 5321.

www.beckmancoulter.com

© 2005 Beckman Coulter, Inc.

PRINTED IN U.S.A.

Bulletin 9209



Simplify • Automate • Innovate

# Value and Safety in a 5-Part Differential System

Distributed by: Infolab 1-800-782-9700



*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 hematology analyzer offers 5-part differential testing for the most complete results. It also 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<sup>CV</sup>) 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 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

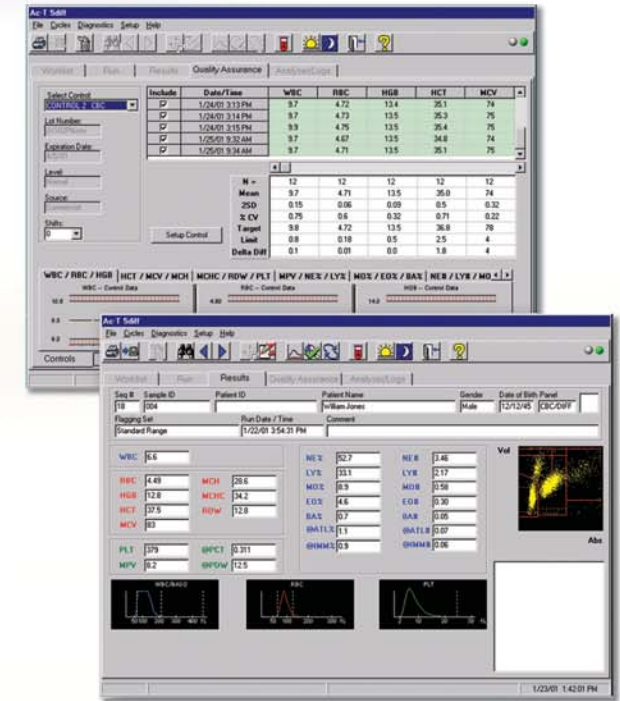
- CBC or CBC/DIFF mode and patient range selectable from the run screen
- One-step start-up, operation and shutdown
- Multiple tube size capability for increased system flexibility
- Specially formulated reagents, controls and calibrators for accurate results
- Zero daily maintenance

## 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 and increases confidence in results
- Qualitative flagging for quicker review of patient results decreases turnaround time
- Twenty user-definable patient and action ranges increase 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.