

COULTER® AC•T diff™ Instrument Specifications



PARAMETERS

WBC
RBC
Hgb
HCT
MCV
MCH
MCHC
RDW
PLT
MPV
PCT*
PDW*
LY %
LY #
MO %
MO #
GR %
GR #
Printed WBC, RBC,
PLT Histograms

SAMPLE ANALYSIS CHARACTERISTICS

- Whole blood 12 µL
- Predilute 20 µL, with on-board diluent dispense
- Automatic probe wipe
- Single-button operation with touch screen

DATA MANAGEMENT

- Patient ID auto-numbering
- 14-digit manual patient ID
- Three user-definable patient ranges
- Data storage for 250 patient results
- QC storage for 3 controls and 279 results
- Levey Jennings graphs

COULTER® AC•T diff 2™ Instrument Specifications



PARAMETERS

WBC
RBC
Hgb
HCT
MCV
MCH
MCHC
RDW
PLT
MPV
PCT*
PDW*
LY %
LY #
MO %
MO #
GR %
GR #
Printed WBC, RBC,
PLT Histograms

SAMPLE ANALYSIS CHARACTERISTICS

- Closed- or open-vial sampling
- Whole blood closed- or open-vial mode 18 µL
- Predilute 20 µL with on-board diluent dispense
- Automatic probe wipe
- Single-button operation with touch screen

DATA MANAGEMENT

- Patient ID auto-numbering
- 14-digit manual patient ID
- Three user-definable patient ranges
- Data storage for 250 patient results
- QC storage for 3 controls and 279 results
- Levey Jennings graphs

COULTER® AC•T™ 5diff CP Instrument Specifications



PARAMETERS

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

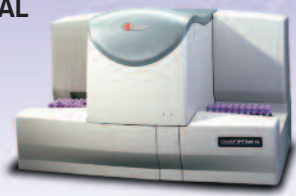
SAMPLE ANALYSIS CHARACTERISTICS

- Closed- or open-vial sampling
- 53 µL whole blood CBC/diff Mode
- 30 µL whole blood CBC-only Mode

DATA MANAGEMENT

- Auto-sequence run number available
- 20 patient ranges with 5 programmable ranges for gender and age flagging
- Data storage for 10,000 patients
- 20 result action ranges with interpretive messages
- On-board Help files
- 24 Control files
- RS232 host transmission

COULTER® AC•T™ 5diff AL Instrument Specifications



PARAMETERS

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

SAMPLE ANALYSIS CHARACTERISTICS

- 100-sample autoloader
- Closed- or open-vial sampling via manual (stat) mode
- 53 µL whole blood CBC/diff Mode
- 30 µL whole blood CBC-only Mode
- Internal, and optional external, barcode reader

DATA MANAGEMENT

- Auto-sequence run number available
- 20 patient ranges with 5 programmable ranges for gender and age flagging
- Data storage for 10,000 patients
- 20 result action ranges with interpretive messages
- On-board Help files
- 24 Control files
- RS232 host transmission

OPERATING RANGE	
Parameters	Range
WBC	0.0 - 150.0 x 10 ³ cells/µL
RBC	0.00 - 8.00 x 10 ⁶ cells/µL
Hgb	0.00 - 30.0 g/dL
MCV	50.0 - 130.0 fL
PLT	0 - 3000 x 10 ³ cells/µL
MPV	5.0 - 20.0 fL
LY%, MO%, GR%	0 - 100%
LY#, MO#, GR#	0 - 99.9 x 10 ³ cells/µL

OPERATING RANGE	
Parameters	Range
WBC	0.0 - 150.0 x 10 ³ cells/µL
RBC	0.00 - 8.00 x 10 ⁶ cells/µL
Hgb	0.00 - 30.0 g/dL
MCV	50.0 - 130.0 fL
PLT	0 - 3000 x 10 ³ cells/µL
MPV	5.0 - 20.0 fL
LY%, MO%, GR%	0 - 100%
LY#, MO#, GR#	0 - 99.9 x 10 ³ cells/µL

OPERATING RANGE	
Parameters	Range
WBC	0-100 x 10 ³ cells/µL
RBC	0-10 x 10 ⁶ cells/µL
Hgb	0 - 30 g/dL
HCT	0 - 80%
PLT	0 - 1500 x 10 ³ cells/µL

OPERATING RANGE	
Parameters	Range
WBC	0-100 x 10 ³ cells/µL
RBC	0-10 x 10 ⁶ cells/µL
Hgb	0 - 30 g/dL
HCT	0 - 80%
PLT	0 - 1500 x 10 ³ cells/µL

SAMPLE STABILITY
- CBC/diff 24-hr room temperature

PRINTER
- Dot matrix graphics printer
- Single-ticket printer
- LED Page Printer

THROUGHPUT
- Minimum 50 samples/hour
- Results in less than 60 seconds

USER INTERFACE
- Touch screen
- Language-independent icons
- Single screen for all input
- One button sample aspiration
- ASTM, RS232 host communications

SAMPLE STABILITY
- CBC/diff 24-hr room temperature

PRINTER
- Single-ticket printer
- LED Page Printer

THROUGHPUT
- Minimum 50 samples/hour
- Results in less than 60 seconds

USER INTERFACE
- Touch screen
- Language independent icons
- Single screen display of all results
- Single screen for all input
- ASTM, RS232 host communications

SAMPLE STABILITY
- CBC 48-hr room temperature
- Diff 24-hr room temperature

PRINTER
- LED Page Printer

THROUGHPUT
- Up to 60 samples/hour

USER INTERFACE
- Stand-alone PC operating Windows[®] NT-based software
- On-board Quality Assurance, patient storage and worklists ASTM, RS232 host communications

SAMPLE STABILITY
- CBC 48-hr room temperature
- Diff 24-hr room temperature

PRINTER
- LED Page Printer

THROUGHPUT
- Up to 80 samples/hour

USER INTERFACE
- Stand-alone PC operating Windows NT-based software
- On-board Quality Assurance, patient storage and worklists ASTM, RS232 host communications

DIMENSIONS/WEIGHT		
Height:	42 cm (16.5 inches)	Depth: 39 cm (15.4 inches)
Width:	38 cm (15 inches)	Weight: 14 kg (30 lbs)

DIMENSIONS/WEIGHT		
Height:	45 cm (18 inches)	Depth: 40 cm (16 inches)
Width:	49 cm (19 inches)	Weight: 20 kg (45 lbs)

DIMENSIONS/WEIGHT		
Height:	58.0 cm (23.0 inches)	Depth: 50.1 cm (19.8 inches)
Width:	44.4 cm (17.5 inches)	Weight: 36.2 kg (80 lbs)

DIMENSIONS/WEIGHT		
Height:	54.0 cm (21.5 inches)	Depth: 58 cm (22.5 inches)
Width:	81.5 cm (32. inches)	Weight: 55 kg (121.3 lbs)

REAGENT ORDER INFORMATION		
AC•T diff	Configuration	Part Number
diff AC•T Tainer™	4 Liter	8547135
diff AC•T Pak™	15 Liter	8547134
AC•T Rinse™	500 mL	8547113
S-Cal® Calibrator	1 x 6 mL	7547005
4C®- ES Tri-Pack	12 x 3.3 mL	7547187
4C®- ES Tri-Pack	9 x 3.3 mL	7547189

REAGENT ORDER INFORMATION		
AC•T diff 2	Configuration	Part Number
diff AC•T Tainer™	4 Liter	8547135
diff AC•T Pak™	15 Liter	8547134
AC•T Rinse™	500 mL	8547113
S-Cal® Calibrator	1 x 6 mL	7547005
4C®- ES Tri-Pack	12 x 3.3 mL	7547187
4C®- ES Tri-Pack	9 x 3.3 mL	7547189

REAGENT ORDER INFORMATION		
AC•T 5diff CP	Configuration	Part Number
AC•T™ 5diff Diluent	20 Liter	8547169
AC•T™ 5diff Hgb Lyse	400 mL	8547168
AC•T™ 5diff Fix	1 Liter	8547171
AC•T™ 5diff WBC Lyse	1 Liter	8547170
AC•T™ 5diff Rinse	1 Liter	8547167
AC•T™ 5diff Calibrator	2 x 2 mL	7547175
AC•T™ 5diff Control Plus	6 x 2.3 mL	7547198

REAGENT ORDER INFORMATION		
AC•T 5diff AL	Configuration	Part Number
AC•T™ 5diff Diluent	20 Liter	8547169
AC•T™ 5diff Hgb Lyse	400 mL	8547168
AC•T™ 5diff Fix	1 Liter	8547171
AC•T™ 5diff WBC Lyse	1 Liter	8547170
AC•T™ 5diff Rinse	1 Liter	8547167
AC•T™ 5diff Calibrator	2 x 2 mL	7547175
AC•T™ 5diff Control Plus	6 x 2.3 mL	7547198

Exceptional value.
Results you can trust.

COULTER® AC•T™
Family of Hematology Analyzers



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Performance You Can Count On

Our AC•T family of hematology analyzers delivers an unmatched combination of simplicity, affordability and compact design. From our proven 3-part histogram differential analysis to our full 5-part differential analysis, each analyzer delivers consistently accurate test results. Plus, our systems are backed by our superior service and support for maximum uptime.

- Proven technologies in affordable systems
- High-quality analyzers that provide results you can trust
- Complete system of superior reagents and controls
- Unparalleled level of customer service and support

COULTER® AC•T™ 5diff Auto Loader (AL) Hematology Analyzer



CBC with 5-part Differential

- 100-sample auto loader and open- or closed-vial manual (STAT) sampling with multiple tube size capability
- Extensive data management capabilities for optimal record keeping
- On-board Help files assist operator training
- 53 µL sample size for CBC with 5-part differential
- 80 samples-per-hour throughput ensures productivity
- Zero routine maintenance requirements and high system reliability help contain costs

Target volume: Ideal for customers performing 10-100 CBCs a day.

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



CBC with 5-part Differential

- Closed-vial sampling, automatic cap-piercing with multiple tube size capability
- Extensive data management capabilities for optimal record keeping
- On-board Help files assist operator training
- 53 µL sample size for CBC with 5-part differential
- 60 samples-per-hour throughput ensures productivity
- Zero routine maintenance requirements and high system reliability help contain costs

Target volume: Ideal for customers performing 10-100 CBCs a day.

COULTER® AC•T diff 2™ Hematology Analyzer



CBC with 3-part Differential

- Closed-vial sampling accommodates a variety of collection tube sizes
- Small 18 µL sample size in either closed- or open-vial modes
- Compact – Only two square feet of counter space required
- Efficient data management meets your laboratory's needs
- Automated quality assurance functions improve productivity
- Controls and calibrators designed for closed-vial sampling
- Zero routine maintenance requirements and high system reliability help contain costs

Target volume: Ideal for customers performing 1-100 CBCs a day.

COULTER® AC•T diff™ Hematology Analyzer



CBC with 3-part Differential

- One-step sample processing with touch screen user interface
- Automated probe wipe safely cleans the probe
- Small 12 µL sample size permits whole blood analysis from both venous and capillary collections
- Compact design lets you put the AC•T diff anywhere
- Results available in less than 60 seconds
- Efficient data management with patient and control storage
- Optional Veterinary software
- Zero routine maintenance requirements and high system reliability help contain costs

Target volume: Ideal for customers performing 1-50 CBCs a day.

To help maintain optimal system performance, each hematology analyzer is backed by Beckman Coulter's:

- Superior customer service and support to increase laboratory productivity
- Specially formulated reagents, controls and calibrators to ensure consistently reliable results
- Interlaboratory Quality Assurance Program (IQAP), which complements in-house quality control efforts and increases confidence in results