

COULTER® Ac•T diff 2™ Hematology Analyzer

Method and Technologies

Coulter Principle: counting and sizing
 Triplicate counting
 Extended platelet counting
 Cyanmethemoglobin

Parameters

WBC	MPV
RBC	Pct*
Hgb	PDW*
Hct	GR%
MCV	GR#
MCH	LY%
MCHC	LY#
RDW	MO%
Pit	MO#

*Not intended for diagnostic use.

Sample Analysis Characteristics

Closed or open vial sampling
 Whole blood closed vial mode 18 µL
 Whole blood open vial mode 18 µL
 Predilute 20 µL
 Automatic probe wipe

User Interface

Touch screen
 Language independent icons
 Single screen display of all results
 Single screen for all input

Linearity

Parameter	Linearity Range	Difference
WBC	0.0-99.9 x 10 ³ cells/µL	±0.3 or ±5.0%
RBC	0.0-7.00 x 10 ⁶ cells/µL	±0.05 or ±5.0%
Hgb	0.0-25.0 g/dL	±0.2 or ±3.0%
Pit	0.0-999 x 10 ³ cells/µL	±10 or ±10.0%

Linearity, when tested using a stable sample having no interfering substances.

Precision

Parameter	Range	% CV
WBC	6.0-15.0 x 10 ³ cells/µL	≤3.0
RBC	3.00-6.00 x 10 ⁶ cells/µL	≤3.0
Hgb	12.0-18.0 g/dL	≤2.0
MCV	80.0-100.0 fl	≤3.0
Pit	200-500 x 10 ³ cells/µL	≤7.0
MPV	5.0-20 fl	≤3.0
RDW	12.0-15.0%	≤3.0
LY	20-50%	≤1.5 (S.D)
MO	2.0-10%	≤1.5 (S.D)
GR	30.0-70.0%	≤3.0 (S.D)

Imprecision is based on 31 replicate determinations of the same sample.

Operating range

Parameter	Range
WBC	0.0-150 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
Pit	0.00-3000 x 10 ³ cells/µL
MPV	5.0-20.0 fl
LY%, LY#	MO%, GR% 0-100%
LY#	MO#, GR# 0-99.9 x 10 ³ cells/µL

Throughput

Results in less than 60 seconds.
 Minimum of 50 samples per hour.

Data Management

Patient ID auto-numbering
 14 digit manual patient ID
 Three user-definable patient ranges for reporting results
 Linearity range for result limits reporting
 Data storage for 250 patient results
 QC storage for 3 controls and 279 results
 Levy Jennings graphs

Printer

Graphics printer, roll printer or ticket printer

Host Communication

RS232C with ASTM standards

Dimensions/Weight

Height	49cm (19in)
Width	45cm (18in)
Depth	43cm (17in)
Weight	20kg (45lb)

Power

100v + 10%, 50/60Hz
 120v + 10%, 50/60Hz
 220v + 10%, 50/60Hz
 240v + 10%, 50/60Hz

Consumption

Less than 120W

Installation

Category II per IEC 1010-1

Results You Can Trust with the Superior Support Your Lab Needs.

COULTER® Ac•T diff 2™ Hematology Analyzer



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



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The AcT diff 2 Delivers Reliable Results at an Incredible Value



Gain confidence in results with the AcT diff 2.

The COULTER® AC•T diff 2™ hematology

analyzer is an affordable, easy-to-use system that is

ideal for a physician's office lab or smaller

laboratory. As a fully automated, 16 or 18

parameter system, the AC•T diff 2 offers a CBC

and Coulter histogram differential for consistently accurate

results. Plus, this compact analyzer provides closed vial

sampling to maximize safety and efficiency in your lab.

It also offers a small sample volume in both open and

closed analysis modes, a wide operating range and multiple

output formats. With the reliable performance of the

AC•T diff 2 and our superior customer support, you'll

achieve maximum uptime in your laboratory.



Specially formulated reagents, controls and calibrators ensure accurate results.

Efficient Data Management Ensures Accurate Results

- User-definable high/low flagging of patient results and quality control simplifies data interpretation
- Storage of three levels of control and automated calibration procedures enhances productivity and assures accurate capture and calculation of data
- Meet your lab's individual needs with six different reporting styles including WBC, RBC & PLT histograms and tickets

Ease of Operation and Superior Sample Handling Increases Productivity

- CBC and differential results are easily obtained with sophisticated, yet user-friendly technology
- Wide operating ranges and extended platelet counting simplify handling of samples with abnormally high or low results
- Closed vial sampling for controls and calibrators provides operator safety
- Small 18 µl sample size enables processing of hard-to-obtain specimens

Service 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 with a quick service response time. 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 diff 2 can deliver greater productivity and efficiency in your lab.



Running Samples is Easy

1. Select sample mode and verify ID via the intuitive touch screen



2. Place sample or control tube into the closed vial sample station



3. Review results in less than 60 seconds.



Superior service and a quick response time increase uptime in your lab.