

Performance you can trust

with the superior support your lab needs.

COULTER® HmX Hematology Analyzer

Chemistry
Immunodiagnosics
Molecular Diagnostics
Hematology
Centrifugation
Disease Management
Information Systems
Lab Automation
Hemostasis
Flow Cytometry
Primary Care



The HmX helps your lab increase productivity with consistently reliable results.

Designed for exceptional performance and reliability, the HmX fulfills the ever-increasing demand to improve productivity in your clinical laboratory. The HmX offers advanced, three-dimensional VCS technology, which provides the highest level of sensitivity, specificity and efficiency in white cell differential analysis.

With its reputation for accuracy and dependability, the mid-size HmX analyzer is an affordable solution for your hematology laboratory.



Increased Efficiency and Improved Productivity

- Continuous auto-loading for complete walk away operation
- Universal cassettes process various tube sizes and help eliminate tube sorting
- One-touch start up and shut down
- Zero daily routine maintenance saves time every day
- Small sample size enables you to run all samples, including micro-collection samples
- Fully automated Quality Control and calibration platforms
- Simplify supply ordering with reagents interchangeable between all LH series analyzers

Results and Support You Can Rely On

- Consistently reliable results with maximum up-time
- High correlation of data between all VCS systems in your core and satellite laboratories
- Error-free patient ID barcode reading at the point of aspiration for fail-safe sample management
- Enables laboratory professionals to spend more time on abnormal results
- Prompt, helpful technical support with a quick service response time



Flexible, specially-formulated reagents, fully automated QC and calibration platforms provide consistently reliable results.

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, service response time and 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 HmX will deliver enhanced productivity and efficiency in your lab.



With its versatile closed tube sampling system, the HmX helps save time and enhance safety for laboratorians.

COULTER® HmX Specifications

Method and Technologies

CBC Analysis & Hgb

- Coulter Principle: counting and sizing
- Triplicate counting
- Coincidence correction
- Pulse editing
- Sweep flow
- Extended platelet counting
- Hemoglobin method equal in accuracy to reference method
- LH Series Diluent, ISOTON III (or ISOTON 4–Japan and Germany only) and COULTER® LYSE S® III (or LYSE S 4 –Japan and Germany only) diff reagent system

5-Part Differential Analysis

- VCS Technology
- LH Series reagent system, HmX Pak reagent system

Retic Analysis

- VCS Technology
- COULTER® ReticPrep™ reagent system (New Methylene Blue)

26 Parameters

WBC	RBC	PLT	RETIC #
NE#	HGB	MPV	RETIC %
NE%	HCT	PCT*	IRF
LY#	MCV	PDW*	MRV
LY%	MCH		
MO#	MCHC		
MO%	RDW		
EO#			
EO%			
BA#			
BA%			

* For Research Use Only. Not for use in diagnostic procedures.

Sample Size

- 185 µL whole blood, closed vial sampling
- 125 µL whole blood, open vial sampling
- 50 µL whole blood, predilute mode

Barcode Symbology

Positive Barcode ID

- Codabar
- NW 7
- Code 39®
- Code 128
- Interleaved 2-of-5

Data Management

- Database capacity: 5,000 sets of results, graphics and listmode files
- Diskette capacity: archive up to 1,000 sets of results
- User-defined flagging
- Workload recording
- Archive and transmit patient and QC to host computer

Quality Control Management

- 20 control files which store 100 runs each
- Control and user-defined limits and flagging
- XB analysis displays the last 20 batch means and the runs of the current batch
- IQAP assessment

Linearity

Parameter	Linearity Range
WBC	0.0 – 99.9 x 10 ³ cells/µL
RBC	0.0 – 7.00 x 10 ⁶ cells/µL
HGB	0.0 – 25.0 g/dL
MCV	50 – 150.0 fL
PLT	0.0 – 999 x 10 ³ cells/µL
MPV	5.0 to 20.0 fL

Precision

Parameter	Range	% CV
WBC	4.0 – 15.0 x 10 ³ cells/µL	≤2.5
RBC	3.00 – 6.00 x 10 ⁶ cells/µL	≤2.0
HGB	12.0 – 18.0 g/dL	≤1.5
MCV	80.0 – 100.0 fL	≤2.0
RDW	12.0 – 15.0%	≤2.5
PLT	200 – 500 x 10 ³ cells/µL	≤5.0
MPV	7.0 – 12.0 fL	≤3.0
LY%	31% & WBC 4.0 x 10 ³ cells/µL	2SD±3.0
MO%	8% & WBC 4.0 x 10 ³ cells/µL	2SD±2.0
NE%	57% & WBC 4.0 x 10 ³ cells/µL	2SD±3.0
EO%	3% & WBC 4.0 x 10 ³ cells/µL	2SD±1.0
BA%	1% & WBC 4.0 x 10 ³ cells/µL	2SD±1.0
RET %	<1.00%	≤23% CV or 1SD <0.23
RET %	1.00 – 4.00%	≤17% CV or 1SD <0.23
RET %	4.01 – 15.00+%	≤15% CV or 1SD <0.68

Accuracy

Parameter	Mean Difference	Mean % Difference
WBC	±0.2	3.0
RBC	±0.05	2.0
HGB	±0.2	2.0
MCV		±2.0
PLT	±10.0	7.0
MPV		±5.0
RET	±1.0 and ≤1.5SD	

Dimensions/Weight

	Height	Width	Depth	Weight
<i>Analyzer</i>	84.8 cm (33.4 in)	61.5 cm (25.1 in)	61.7 cm (25.2 in)	94.5 kg (210 lb)
<i>Computer</i>	41.2 cm (16.2 in)	17.8 cm (7.0 in)	41.9 cm (16.5 in)	9.7 kg (21.5 lb)
<i>LCD Display</i>	41.9 cm (16.5 in)	40.4 cm (15.9 in)	19.6 cm (7.7 in)	7.34 kg (16.3 lb)

Temperature, Ambient Operating

16 to 32°C (60 to 90°F)

Humidity

0 to 95% non-condensing

Throughput

Up to 75 samples/hour in Automatic mode



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B2008-8897-PO-5K

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DIAG-PRINTED IN U.S.A.