COULTER LH 750 Hematology Analyzer

Specifications
Available Parameters

WBC	MO%	Hgb	Retic #	
NE#	EO#	HCT	Retic %	Plt
NE%	EO%	MCV	IRF (Immature Reticulocyte Fraction)	MPV (Mean Platelet Volume)
LY#	BA#	MCH	MRV	(Mean Reticulocyte Volume)
LY%	BA%	MCHC	NRBC#	
MO#	RBC	RDW	NRBC%	

LH 750 Throughput

Mode	Sample/Hour
CBC Only	110
CBC/Diff	105
Retic Only	45
Typical throughput including CBC/Diff and 5% Retic	102
Typical throughput including CBC/Diff and 10% Retic	95

Sample Requirements

Max.	300 µL	Automatic Mode
Max.	550 µL	Automatic Mode w/SlideMaker
Max.	200 µL	Manual Mode

LH 750 Workstation

Minimum Specifications	256MB RAM	17" Flat Screen Monitor
Microsoft® Windows 2000 Operating System	20GB Hard Drive	Tower configuration computer
Preemptive Multitasking	CD-ROM/DVD Player	Optical Mouse
1GHz Processor	Data/Fax Modem	

Improved Linearity/Operating Ranges

Parameters	Linearity Range	Operating Range
WBC	0.00 to 400.00 x 10^3 cells/µL	0.00 to 900.00 x 10^3 cells/µL
RBC	0.00 to 8.00 x 10^6 cells/µL	0.00 to 20.00 x 10^6 cells/µL
Hgb	0.0 to 25.0 g/dL	0.0 to 99.9 g/dL
Plt	0 to 3000 x 10^3 cells/µL	0 to 5000 x 10^3 cells/µL
NE#, LY#, MO#, EO#, BA#	0 to 100 x 10^3 cells/µL	0 to 400 x 10^3 cells/µL
RET%	0 to 30%	0.0 to 100.0%
RET #	0.0 to 0.750 x 10^6 cells/µL	0.0 to 999.9 x 10^6 cells/µL

Precision

Parameters	Limit	Parameters	Limit
WBC at 9 to 11 x 10^3 cells/µL	≤1.7% CV	NE% at 50 to 60%	2SD ≤3.0
RBC at 4.5 to 5.5 x 10^6 cells/µL	≤0.8% CV	LY% at 25 to 35%	2SD ≤3.0
Hgb at 14 to 16 g/dL	≤0.8% CV	MO% at 5 to 10%	2SD ≤2.0
MCV at 80 to 90 fL	≤0.8% CV	EO% at 2 to 5%	2SD ≤1.0
RDW at 12 to 14%	≤2.2% CV	BA% at 0.5 to 1.5%	2SD ≤1.0
Plt at 280 to 320 x 10^3 cells/µL	≤3.3% CV	RET% at 0.0 to 0.49%	16.5% CV or 1SD ≤0.23
Plt at 90 to 110 x 10^3 cells/µL	≤6.6% CV	RET% at 0.5 to 1.49%	14.5% CV or 1SD ≤0.23
Plt at 10.0 to 15.0 x 10^3 cells/µL	≤14.0% CV	RET% at 1.5 to 4.0%	11.0% CV or 1SD ≤0.68
MPV at 8 to 10 fL	≤2.2% CV	RET% at 4.01 to 15.0%	5.5% CV or 1SD ≤0.68

Dimensions

Component	Height	Width	Depth	Weight
Analyzer	35 in	40 in	24 in	205 lbs
	88.9 cm	101.6 cm	61 cm	93.2 Kg
Power Supply	23.3 in	14 in	24 in	125 lbs
	59 cm	35.5 cm	60 cm	56.7 Kg

COULTER LH 750 with LH SlideMaker and LH SlideStainer

Throughput

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CBC Only	105
CBC/Diff	100
Retic Only	45
Typical throughput including CBC/Diff and 5% Retic	102
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Component	Height	Width	Depth	Weight
LH SlideMaker	19.75 in	29.5 in	27 in	90 lbs
	50.2 cm	74.9 cm	68.6 cm	40.9 Kg
LH SlideStainer	19.75 in	23.75 in	30 in	80 lbs
	50.2 cm	60.3 cm	76.2 cm	36.4 Kg

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Peak hematology performance.
Results and support you can count on.

The COULTER® LH 750 with LH SlideMaker and LH SlideStainer

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

Simplify · Automate · Innovate

BR-11747A

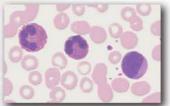# Attain peak efficiency with
trackless automation in your laboratory.

What do you get when you combine the power of the COULTER LH 750 hematology analyzer with the strength of an integrated slide preparation module? A superbly efficient, trackless workstation that's high in throughput and high in productivity — COULTER LH 750 with LH SlideMaker and LH SlideStainer.

The LH 750 addresses two of the biggest issues facing today's high-volume hematology laboratories — making the most effective use of valuable labor resources and reducing the need for technologists' intervention during the testing process. This system meets both challenges by merging expert automation and today's most advanced technologies into one integrated workcell. Plus, it offers the best slide quality with its edge-on-edge smearing technique, flexible stain options and customer definable protocols.

With this powerful network at work in your lab, you'll gain the accuracy and quality that has made COULTER systems the preferred choice by laboratories around the world. Plug into the LH 750 for results and performance you can trust.
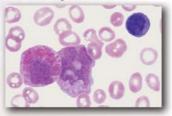
The COULTER LH 750 reduces manual intervention, provides faster results turnaround and ensures the highest degree of accuracy.
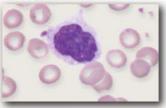
TRUCOLOR™ Wright Stain

TRUCOLOR Wright-Giemsa Stain

TRUCOLOR May Grunwald Giemsa Stain

The automated LH SlideStainer improves the clear identification of cells with high quality staining of slides.

Simplify and Automate Slide Preparation

The LH 750 streamlines routine hematology testing, as well as your lab's most time-consuming manual tasks. This integrated workcell automates your slide making process without the intricacy of tracks for specimen delivery. It also helps your lab save time and increase productivity with a simple, no-prep loading method. Operators simply load sample cassettes onto the workcell and return later to remove stained blood films. Additional benefits of the SlideMaker and SlideStainer include:

· Confidence in quality results through consistent slide making and staining

· Automated slide preparation module saves time and optimizes labor efficiency by minimizing manual intervention

· Automatic reflex slidemaking (based on user-defined decision rules) improves testing consistency

· Clear slide labeling, stain resistant labels and optional bar coding help reduce clerical errors and increase accuracy

· Prioritization of STAT samples helps streamline workflow and decrease turnaround time

The LH SlideStainer's robotic arm retrieves the basket and moves it into the staining module for automated fixing, staining and drying.

Increase Testing Accuracy and Confidence

The LH 750 hematology analyzer is powered by AccuCount Technology to deliver expanded linearity and unsurpassed accuracy, particularly at the clinical decision threshold. With the LH750, WBC interference correction is automatic. You'll receive an accurate count in the presence of interfering substances, such as NRBCs. You'll also benefit from a reduction in false positives — helping your lab to increase productivity.

The LH 750 analyzer also provides NRBC enumeration to help eliminate manual counting procedures and ensure consistently reliable results. With the LH 750, NRBCs are automatically enumerated with every CBC/Diff without the need for additional reagents or reflex testing.

Plus, the LH 750 analyzer offers automated body fluid analysis, allowing you to efficiently and accurately test three categories of body fluids:

· Cerebrospinal fluid

· Serous fluids (pleural, peritoneal, pericardial)

· Synovial fluids that have been treated with Hyaluronidase

Unparalleled Service and Support

With the LH 750, you'll gain all the automated features your lab needs and receive the comprehensive technical support that has earned Beckman Coulter a long-standing reputation for market leadership. Our Intelligent Service provides remote service diagnostics and troubleshooting to increase uptime and productivity. Plus, you'll have access to our wide-ranging support network including our telephone, on-line and on-site services.

When you partner with Beckman Coulter, you can count on us to keep your hematology systems — and your laboratory — working reliably and efficiently for many years to come. To learn more about how to attain peak power and performance with the LH 750 with LH SlideMaker and LH SlideStainer, contact your Beckman Coulter representative today or visit www.beckmancoulter.com.