





Satisfaction in test

BC-5380

Auto Hematology Analyzer

mainstream technologies: laser scatter, flow cytometry and chemical dye, BC-5380 can provide accurate differential readout. In order to save time and increase walk-away automation, an autoloader is equipped to hold 30 tubes one time and achieve 60 samples/hr throughput. With the popular windows based software, you can easily perform the routine tests, manage patient results, set up auto-cleaning and connect with LIS server. BC-5380 is your ideal choice to streamline daily workflow.

The new BC-5380 Auto Hematology Analyzer provides rapid and reliable test from just 20uL of blood. Utilizing three

• 27 parameters for complete 5-part differentiation (CBC+DIFF) on white blood cells including immature cells;

dye method and advanced flow cytometry

• Semi-conductor laser scatter combined with chemical

- 30-tubes autoloader with random access Closed tube sampler supporting selected microtainers
- Capability to flag abnormal samples
- 20 µL blood sampling for CBC+DIFF test while 15uL for

• Compact and no external air pump to avoid noise

patient results and 60 files for QC data

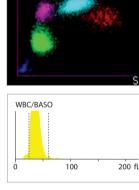
• Up to 60 samples per hour throughput

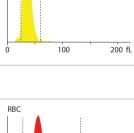
• Windows software with at least 40,000 storage for

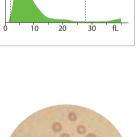
• Supports both whole blood and capillary blood samples

- Customization on reference range, auto-cleaning schedule and report format
- Support bi-directional LIS connection









channel. Dynamic discriminator adjustment can improve the separation of RBC and PLT groups when large

RBC and PLT

White blood cell differentiation

forward scatter and side scatter

The semi-conductor laser system collects

information of white blood cells in a flow

monocytes, neutrophils and eosinophils

according to the cell size and granule

treatment to eosinophils can separate from neutrophils in DIFF scattergram. In

addition, basophils are measured in an

impedance channel upon lysing action

Advanced impedance measurement for

Mindray patented digital sheath flow and weak signal detection techniques are

applied to ensure accurate counting and sizing of RBC and PLT in the impedance

platelet and micro RBC are present.

Benefiting from these improvements,

MCV, RDW and PLT performance are

Besides of the routine CBC+DIFF results,

BC-5380 offers data result for large

greatly enhanced.

Flag abnormity

on the RBC and other WBC groups.

complexity. Specific chemical dye

cell and differentiates lymphocytes,

immature cell and atypical lymphocytes in infectious diseases. Intelligent flagging system can help doctors fish out suspicious cases for further validation check. For example, microcytosis, anemia, eosinophilia, PLT clump and so on. The manual microscopic check results and morphology description can be print together in the final report. **Autoloader and STAT** 30 vacutainer tubes can be put on the



autoloader for continuous loading which increases walk-away time; an independent closed tube sampler can be used for STAT test and can fit selected microtainer tubes.



ideal choice to work with pediatric and geriatric samples. The benefits extend to

memory.

20 µL blood sampling

reduced reagent consumption and possibility for a backup test. M-53 reagents and BC-5D controls Only 4 routine M-53 reagents are utilized in counting cycle featuring economical consumption and 2 years shelf life. To help precision monitoring, three levels of

BC-5D controls are offered in a ready-to-

use kit and the assay value table can be

The analyzer's windows-based software is

information hub to store 40,000 patient

results. You can set-up password access,

simple to use and plays a powerful

automatically imported through USB

The precise sampling system enables

CBC+DIFF test, making the analyzer an

microsampling of 20uL blood for



reference range, auto-cleaning schedule and so on. Also, the built-in report format tool can help to customize the final

Windows based software

report type to include microscopic counting, ESR, blood type and diagnostic remarks. Most of the maintenance functions are presented in cartoon icons and can be executed in mouse click without manual work. QC monitoring and patient archive 60 QC files are designed to store L-J QC results. 300 data points can be recorded in single file. 4 common QC programs are enabled for full quality assurance purposes. Patient data is archived and can be searched and presented in trend curve for case follow-up.



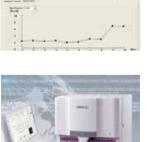
Supporting HL7 protocol, BC-5380 can be linked to LIS both in uni- and bidirectional manner. Test orders and patient information can be downloaded

from server and the results can be

automatically transmitted when tests

Network connection

finish.



BC-5380 Auto Hematology Analyzer

Technical Specifications: Principles

method, independent Basophil channel Impedance method for WBC, RBC, PLT counting Cyanide-free reagent for Hemoglobin test

Parameters

27: WBC, Lym%, Mon%, Neu%, Eos%, Bas%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, LIC%, LIC#, ALY%, ALY# 3 histograms and 1 scatter gram

Flow Cytometry (FCM), Semi-conductor Laser scatter, chemical dye

Sampling Mode Autoloader Closed Tube

Throughput Up to 60 samples per hour with autoloader

Sample Volume Whole Blood: 20 µL Prediluted: 20 µL

Performance Carryover

Test Mode CBC CBC+DIFF

HGB ≤ 0.5% PLT ≤ 1.0%

Precision WBC ≤ 0.5%

 $\leq 2.0\% (4-15 \times 10^9/L)$ $RBC~\leq 0.5\%$ $\leq 1.5\% (3.5-6.0 \times 10^{12}/L)$ ≤ 1.5% (110-180g/L) $\leq 4.0\% (150-500 \times 10^9/L)$

Up to 50 samples per hour with closed tube

Linearity 0.00-99.99 x10⁹/L $0.00-8.00 \times 10^{12}/L$ 0-250g/L 0-1000 x109/L



Operating Environment

Temperature: 15 °C~30°C Humidity: 30~85%

Air Pressure: 70~106 kPa **Power Requirement**

A.C.100-240V ≤ 300VA 50/60Hz Weight: ≤ 65 Kg

DISTRIBUTOR:

Mindray is listed on the NYSE under the symbol "MR"

mindray