



## SALIENT FEATURES

Total 49 parameters, 28 reportable (including Retic) & 17 research parameters

Research parameters including InR

Option to run samples with and without autoloader

Separate test modes for only CBC, CBC + 5 PDA, Retic & Body Fluids

Micro sample requirement of just 20  $\mu$ L

Use of only 4 routine reagents with longer shelf life after opening

Single vial for Retic analysis makes it ideal even for low workload of Retic samples

Use of sheath liquid for 5 PDA & cyanide free reagent for HGB makes it environment friendly

4 angle laser scattering technology that offers accuracy & precision together with economy

# BONAVERA EXPRESS 5R

## 5 Part Differential Hematology Analyzer with Autoloader

### Technical Specifications

#### Principles

WBC 5-part flow cytometry (FCM)+4 angles laser light scatter  
WBC analysis: optical and impedance measurements  
RBC/PLT analysis: impedance method  
HGB test: cyanide-free reagent colorimetry  
RETIC test: flow cytometry (FCM) + laser light scatter + chemical dye method

#### Parameters

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, P\_LCR, PLCC, RETIC%, RETIC ABS, IRF  
7 body-fluid parameters: WBC-BF, RBC-BF, MN%, MN#, PMN%, PMN#, TC-BF#  
14 research parameters: ALY%, ALY#, LIC%, LIC#, \*NRBC%, \*NRBC#, \*BLAST%, \*BLAST#, InR%, InR#, Eos-BF%, Eos-BF#, Neu-BF%, Neu-BF#  
Blood routine provide: 3 histograms for WBC, RBC and PLT  
2 scatter grams: 5-part differential scatter gram, eosinophils and neutrophils scatter gram  
Two 3D stereograms  
RETIC provides: 2 histograms, 2 scatter grams, two 3D stereograms  
Body fluid provides: 2 histograms, 2 scatter grams, two 3D stereograms

#### Reagent

Diluent, Detergent, Lyse, Sheath, Probe Cleaner, Retic Tube

#### Sample Modes

Auto loader 20µL, manual mode 20µl, pre-diluted mode 20µl, body-fluid mode 70µl

#### Throughput

CBC mode: 90T/H, CBC+5DIFF mode: 80T/H, Body-fluid mode: 30T/H

#### Aperture Diameter

WBC 100µm, RBC/PLT 68µm

#### Sampling Device

Auto loader with 50 (10 x 5 racks) sample storage capacity | Built-in bar code reader (Optional)

#### Data Storage

Up to 500,000 sample results with all data & graphics

#### Alarms

Error messages

#### Display

PC display with windows system, 17-inch color TFT display

#### LIS

Support, with HL7 protocol

#### Power Requirement

AC 100-240V, 50/60Hz, 300VA

#### Dimensions

3 KVA with isolated transformer  
592(L) x 712(W) x 595(H) mm ; about 76.5Kg

\*Under development & study



Factory & Registered Office:  
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