

# BONAVERA **Count 5R**

5 Part Differential  
Hematology Analyzer



With  
**RETICULOCYTE**

## SALIENT FEATURES

- ▶ 28 Reportable & 6 RUO\* Parameters including Retic\_Abs, Retic% as well as IRF
- ▶ Flow Cytometry (FCM) and Multi Angle Scatter Separation (MASS) Technology
- ▶ Unique Resistant RBC Mode
- ▶ Throughput of 60 Sample / Hr.
- ▶ Storage of 2,00,000 Results with Histogram & Scattergrams

# BONAVERA Count 5R

- ▶ 28 Reportable & 6 RUO\* Parameters with 2 Histograms & 2 Scattergrams
- ▶ Reticulocyte count with RETIC\_ABS, Retic% & IRF
- ▶ Impedance method for RBC & PLT counting
- ▶ Combination of WIC & WOC methods for WBC Counting
- ▶ Cyanide Free Reagent for HGB measurement
- ▶ Throughput of 60 sample / Hour
- ▶ Storage of 2,00,000 results with histograms & scattergrams
- ▶ Supports Variety of External color printers
- ▶ Supports HIS/LIS & HL7 Protocols
- ▶ Compact size design





### Laser Scatter

Multi – angle scatter separation technology (MASS)



### Digital Sheath Flow Regulation

Use of only sheath flow reagent for WBC 5 Part  
Chemical Dye free Technology



### Separation System

Use of motor & syringes for separation  
Ceramic Syringes & high precision motors



### Electronics & Mechanical Components

Use of Best Quality Time Tested components and materials  
that ensures trouble-free long-lasting performance



### 2D Grams

2D histograms for RBC & PLT  
2D scattergrams for 5-part WBC differentials including  
Eosinophil & neutrophils



### Operation Interface

Simple touchscreen operations with user friendly icons  
Guidance to operator through handy tool icons



### Quality Control Solutions

QC programs with 4 options like L-J, X-R, X-B & X  
Third Party QC solutions available

# TECHNICAL SPECIFICATIONS

# BONAVERA Count 5R

## 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, P\_LCC, RETIC%, RETIC\_ABS, IRF

Research Parameters : ALY#, ALY%, LIC#, LIC%, NRBC#, NRBC%

2 Histograms for RBC and PLT

2 Scattergrams : 5-part differential scattergram

Eosinophils and Neutrophil scattergram

## Principles of Operation

WBC/DIFF : Flow Cytometry, Semi-conductor laser light multi-dimensional cell classification

WBC Analysis : Optical and impedance measurement

RBC/PLT Analysis : Impedance method

HGB Test : Cyanide-free reagent colorimetry

## Reagent

Diluent, Sheath, Detergent, Lyse

## Sampling Modes

Whole Blood : 20µL | Pre-Diluted : 20µL

## Throughput

Whole Blood : Up to 60 samples / Hr.

Pre-diluted : Up to 60 samples / Hr.

## Data Storage

Up to 200,000 sample results with grams

## Alarms

Error Messages

Marketed By



Factory & Registered Office:

Plot No.1,2 Survey No. 169 (Sisodra) Near Plot No. 425, New GIDC, Kabilpore, Navsari - 396 424, (Guj), India  
Ph : +91-93757 94111 | E-mail : biogeny@beaconindia.com  
Web : www.biogenydiagnostics.com | CIN No. : U24299GJ2009PTC057520



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Calibration Setting



QC Setting



System Maintenance

## Linearity

Parameter	Linearity Range	Acceptable Limits	Correlation Coefficient R
WBC	0x10 <sup>9</sup> /L ~ 10.0x10 <sup>9</sup> /L	±0.5x10 <sup>9</sup> /L	≥ 0.990
	10.1x10 <sup>9</sup> /L ~ 100.0x10 <sup>9</sup> /L	±5%	
RBC	0.10x10 <sup>12</sup> /L ~ 100x10 <sup>12</sup> /L	±0.05x10 <sup>12</sup> /L	≥ 0.990
	1.01x10 <sup>12</sup> /L ~ 8.00x10 <sup>12</sup> /L	±5%	
HGB	0 g/L ~ 70 g/L	±2 g/L	≥ 0.990
	71 g/L ~ 250 g/L	±2%	
PLT	0x10 <sup>9</sup> /L1 ~ 100x10 <sup>9</sup> /L	±10x10 <sup>9</sup> /L	≥ 0.990
	101x10 <sup>9</sup> /L ~ 1000x10 <sup>9</sup> /L	±8%	

## Display

10.4 inch with touch screen

## Requirements

Voltage : 110 - 220V (AC), 1 KVA Online UPS with Isolated Transformer

Temperature : 15 - 30

Humidity : 30 - 85%

Size : L 490 mm x H 332 mm x W 459 mm

Weight : 35 KG

