Merilyzer | CelQuant 5 Plus™

Automatic Hematology Analyzer

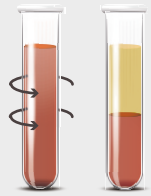
Meril

Diagnostics

ONE SINGLE MINUTE
ONE DROP OF BLOOD
ONE CLICK

Complete a Test with

One Click, One Drop of Blood, in One Single Minute

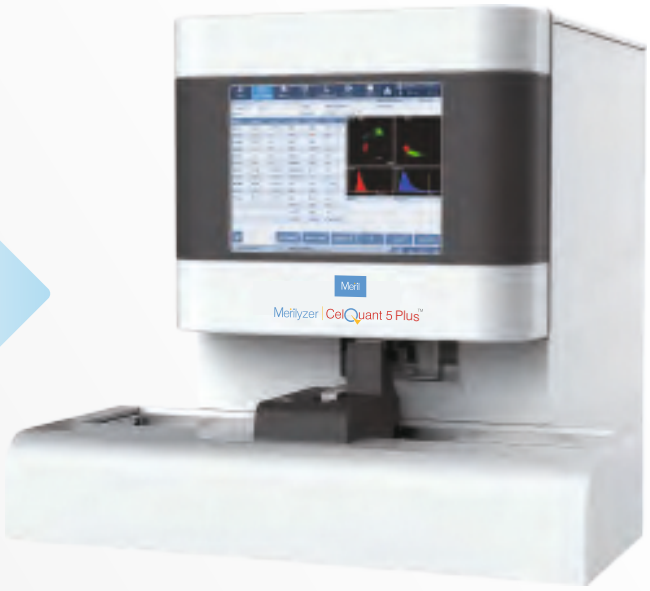


Sample Centrifugation

Biochemistry Analysis

Blood Collection

5-part Hematology analysis



CRP Clinical Significance

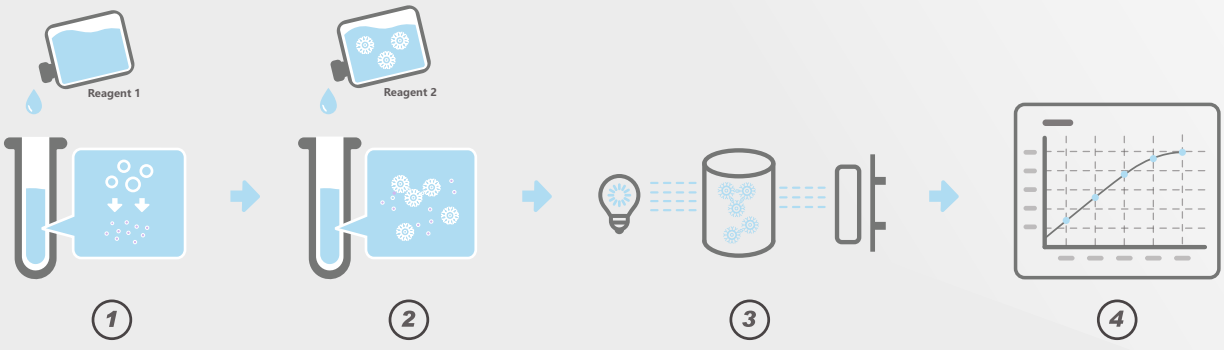
C-reactive protein (CRP) is an important diagnostic parameter for detecting infection, monitoring the progress and therapeutic effect. The combination of CRP and WBC parameter information helps to identify the differentiation of bacterial infections from viral infections, with high clinical diagnostic and reference value.

- Mainly proving useful in detecting inflammation and bacterial infections, determined disease progress or the effectiveness of treatments
- Mainly proving useful in evaluate risk of cardiovascuardisease (CVD)

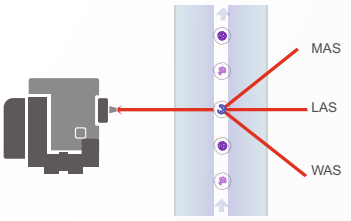
- Increasing analysis CRP range, improving CRP sensitivity

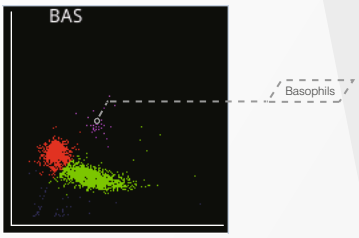
CRP Measurement Principle

- React with hemocyte remove disturbance
- Agglutination reaction of antibody-antigen
- Latex Immunoturbidimetric analysis
- FR-CRP Resulting after calibrated



Advanced Principle





- *Tri-angle laser scatter + flow cytometry+ cytochemical staining, achieving a betterment of 5-part WBC differentiation*
- *Basophils are counted by laser scatter that detects information about cell volume and cellular complexity & granularity*

Unique Comprehensive Clinical Information

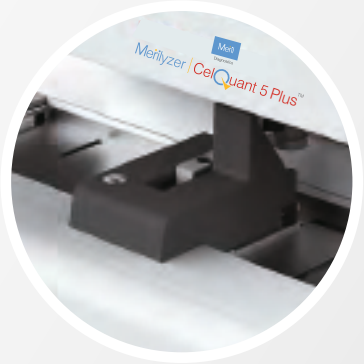
- 5-Part WBC differentiation + CRP, 37 parameters
- 2 scattergrams, 2 histograms
- FR-CRP with linearity of 0.2-320mg/L

Excellent Performance

- 60 Test/Hour
- Only 30 µl sample volume for CBC + DIFF +CRP measurement
- Individual CRP mode
- The CRP reagent is stored on-board at a constant temperature of 2-8^{0}C, even after equipment shutdown, in order to guarantee result stability

User-friendly Design

- Compact design
- High resolution 10.4 inch touch screen
- Multi-language operating interface
- Large storage capacity up to 200,000 samples
- Closed tube for STAT samples
- Rotate the tube automatically, avoid barcode scanning error
- Reagents could be stored in the instrument to save space



Flexible Option

- Auto-loader and CRP module are optiona

After years of technological accumulation in Hematology analysis field, we develop an instrument named CelQuant 5 Plus CRP which is reliable for your choice.

CelQuant 5 Plus CRP is a very compact 5 part DIFF instrument with CRP measurement. Ensuring efficiency and accuracy, guaranteeing reliability and robustness, CeQuant 5 Plus CRP becomes the indispensable hematology analyzer for your laboratory.

Technical Specifications

Parameter	27 reportable parameters: WBC, BASO#, NEUT#, EOS#, LYM#,MON#, BASO%, NEUT%, EOS%, LYM%, MON%, RBC, HGB, MCV, MCH, MCHC, RDW-CV, RDW-SD, HCT, PLT, MPV, PDW, PCT, P-LCR, P-LCC, HS-CRP, FR-CRP 10 research parameters: Blast#, Blast%, ALM#, ALM%, IMM#, IMM%, Left#, Left%, NRBC#, NRBC% 2 scattergrams, 2 histograms
Test Principle	Semiconductor laser flow cytometry+Cytochemical staining+Impedance method for WBC differential Cyanide-free colorimetry for hemoglobin test Impedance method for RBC and PLT counting Latex Immunoturbidimetric Method for CRP test
Throughput	CBC+DIFF: 60 samples per hour CBC+DIFF + CRP: 60 samples per hour CRP: 60 samples per hourt
Sample Mode	Whole blood mode Micro-WB mode Pre-dilute mode
Sampling type	Manual or automated sampling (Auto-loader is optional)
Data Storage Capacity	At least 200,000 results
Data System	Rj45 network interface, USB interface, Support bi-directional LIS
Power Consumption	260VA
Dimension (D×W×H)	681mm×556mm×532mm (with auto-loader), 520mm×380mm×532mm (without auto-loader)
Linearity (CV%)	CelQuant 5 Plus: 48kg (with auto-loader), 40kg (without auto-loader) CelQuant 5 Plus CRP: 51kg (with auto-loader), 43kg (without auto-loader) WBC (1.0-10.0)×10^3/µl Less than ±0.3×10^3/µl WBC (10.1-99.9)×10^3/µl Less than ±5% WBC (100.1-500.0)×10^3/µl Less than ±10% RBC (0-1.00)×10^6/µl Less than ±0.03×10^6/µl RBC (1.01-8.00)×10^6/µl Less than ±3.0% HGB (0.2-7.0) g/dl Less than ±0.2g/dl HGB (7.1-24.0) g/dl Less than ±2% PLT (0-100)×10^3/µl Less than ±10×10^3/µl PLT (101-1000)×10^3/µl Less than ±5% PLT (1001-5000)×10^3/µl Less than ±10%

IND/INS/CQ5PLS/00

Meril Diagnostics Pvt. Ltd.
D1- D3, Second Floor, Meril Park, Survey No. 135/2/B & 174/2, Muktanand Marg, Chala, Vapi - 396191, India
601, Midas, Sahar Plaza Complex, J.B Nagar, Andheri East, Mumbai - 400059
Tel: +91 260 2408000 | **Fax:** +91 260 2408025 | **Customer Care:** 1-800-266-3745 (Toll Free) | **Email:** diagnostics@merillife.com