



# DF50 CRP

5-Part+CRP Tests Combined Within One Machine

### Principles

Flow Cytometry (FCM) + Tri-angle laser scatterer + Chemical staining method for WBC differentiation  
Impedance method for RBC and PLT test  
Cyanide free colorimetry for HGB test  
Latex enhanced immunoturbidimetry for CRP test

### Parameters

27 reportable parameters:

CRP, Hs-CRP, WBC, Neu#, Lym#, Mon#, Eos#, Bas#, Neu%, Lym%, Mon%, Eos%, Bas%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PDW, PCT, P-LCR, P-LCC

6 research parameters:

ALY#, ALY%, LIC#, LIC%, NRBC#, NRBC%

3 histograms for WBC, RBC and PLT

One 3D scattergram and three 2D scattergrams for WBC differentiation

### Sample mode

Whole blood, capillary whole blood and pre-diluted modes

### Test mode

CBC, CBC+DIFF, CRP, CBC+CRP, CBC+DIFF+CRP

### Storage

Up to 50,000 records

### Printout

External printer, compatible with multiply laser / inkjet printers, compatible with various formats and user-defined formats

### Interface

4 USB ports, 1 LAN port

### Power requirement

100V-240V~, 50/60Hz, ≤200VA

### Sample volume

20µL

### Repeatability

WBC≤2.5%(4.0-15.0×10<sup>9</sup>/L)

RBC≤1.5%(3.5-6.0×10<sup>12</sup>/L)

HGB≤1%(110-180g/L)

MCV≤1%(70-120fL)

PLT≤6.0%(100-149×10<sup>9</sup>/L)

≤4.0%(150-500×10<sup>9</sup>/L)<sup>1</sup>

### Linearity range

WBC: 0.00-500.00×10<sup>9</sup>/L

RBC: 0.00-8.50×10<sup>12</sup>/L

HGB: 0-250g/L

PLT: 0-5000×10<sup>9</sup>/L

HCT: 0.0-67.0%

CRP: 0.2-250 mg/L

### Throughput

Up to 60 tests per hour

### Communication

LAN port supports HL7 protocol

Support bi-directional LIS

### Display

10.4 inches TFT touch screen

### Dimension

364mm(W)×498mm(H)×495mm(D)

### Net weight

33.5kg



Beyond Convenience



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Declaration: Shenzhen Dymind Biotechnology Co., Ltd reserves the right to change the product of specifications and appearance at any time. For the information of this manual, Shenzhen Dymind Biotechnology Co., Ltd reserves the right to the interpretation and the decision.  
P/N: EN-DF50CRP(22)



## CRP clinical significance

Identify bacterial or viral infections (preferred indicator)

Monitor disease

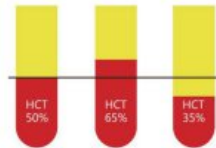
Monitor Infection (postoperative and postpartum)

Observe, guard and monitor the efficiency of antibiotic treatment

Risk assessment and treatment guidance for cardiovascular diseases

## HCT correction technology

HCT correction technology can avoid the interference of anemia and other case factors, and ensure the whole blood and serum results consistency.



Built-in 3 reagents smart reagent room is convenient for reagent positioning.

Built-in cooling system.

Reagents can still be cooled after power off.



10.4 inches TFT touch screen, easy to operate.

12.5° leaning angle of the screen is easy for operator to view.



No barrier around the needle.

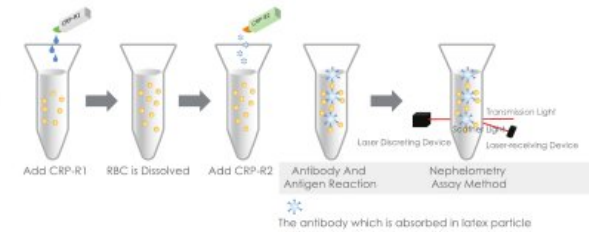
Suitable for either left hand or right hand.

## Latex-enhanced Scattering

Make tiny latex particle connected with CRP antibody and get the contents of antigen through testing the change of the scattering assay.

The sensitivity is smaller than 1mg/L including Hs-CRP and regular CRP.

Easy operation, test faster.



## Independent BASO channel

BASO clinical significance: Leukemia, Anaphylactic Disease, Hematemesis, Cancer.

Real double optical channel test, both for Diff and BASO, independent BASO channel with optical counting contributes to more precise results.

