

DM79X

5-Part Hematology+CRP+SAA Joint Detection within One Step

Principles

Flow Cytometry (FMC) + Tri-angle laser scatter method for WBC differentiation
Impedance method for WBC/BAS, RBC and PLT test
Cyanide-free Colorimetry for HGB
Latex-enhanced Immunoturbidimetry for CRP and SAA test

Parameters

28 reportable parameters: CRP, Hs-CRP, SAA, 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, three 2D scattergrams for WBC differentiation

Linearity Range

WBC: 0.00~500 ×10⁹/L
RBC: 0.00~8.50 ×10¹²/L
HGB: 0~250g/L
PLT: 0~5000 ×10⁹/L
HCT: 0~75%

Sample Volume

20μL

Power Requirement

100V~240V, 50/60Hz, ≤420VA

Communication

LAN port supports HL7 protocol
Bi-directional LIS supported

Test Mode

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

Sampling Mode

Closed in auto loader and open in vial

Blood Mode

Whole blood, capillary blood and prediluted

Dimension (L*W*H)

<700mm* <595mm* <600mm

Repeatability

WBC ≤2.5% (3.50~15.00×10⁹/L)
RBC ≤1.5% (3.50~6.00×10⁹/L)
HGB ≤6.0% (110~180g/L)
MCV ≤1.0% (70~120fL)
PLT ≤6.0% (100~149×10⁹/L)
≤4.0% (150~500×10⁹/L)

Weight

<72kg

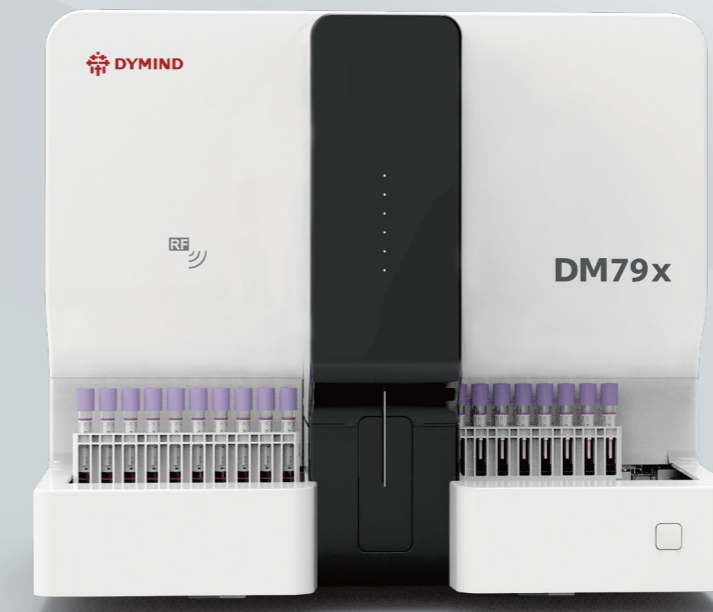
Storage

Up to 100,000 records

Printout

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

Redefine Infection Diagnosis



SHENZHEN DYMIND BIOTECHNOLOGY CO.,LTD.

10th Floor, Building B, High-tech Park, Guangqiao Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen 518107, P. R. China

+86-755-26008015-8123

Intl@dymind.com

www.dymind.com



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The Clinical Significance of WBC, CRP & SAA

Item	Ref. Range	Bacterial Infection	Viral infection	Mixed infection
WBC	4-10*10 ⁹ /L	Neutrophil Increase	Lymphocyte increase	Might increase
CRP	<10mg/L	Significantly increase	Slightly or none increase	Increase
SAA	<10mg/L	Increase faster than CRP but drop faster	Significantly increase	Significantly increase

The Clinical Alert of CRP & SAA Joint Detection during Acute Phase of Infection

SAA	CRP	Clinical alert
<10 mg/L	Within normal range	No acute inflammatory
10 mg/L~100 mg/L	Normal or slightly increase	Virus infection (mild)
100 mg/L~500 mg/L	> 50 mg/L	Bacterial infection, dynamically monitor SAA and CRP to evaluate the therapeutic effect
≥500 mg/L	Increase, but ≤50 mg/L	Viral infection (severe), bacterial infection, need 12~24h review

Traditional method two instrument multiply steps



DM79X one instrument one step

