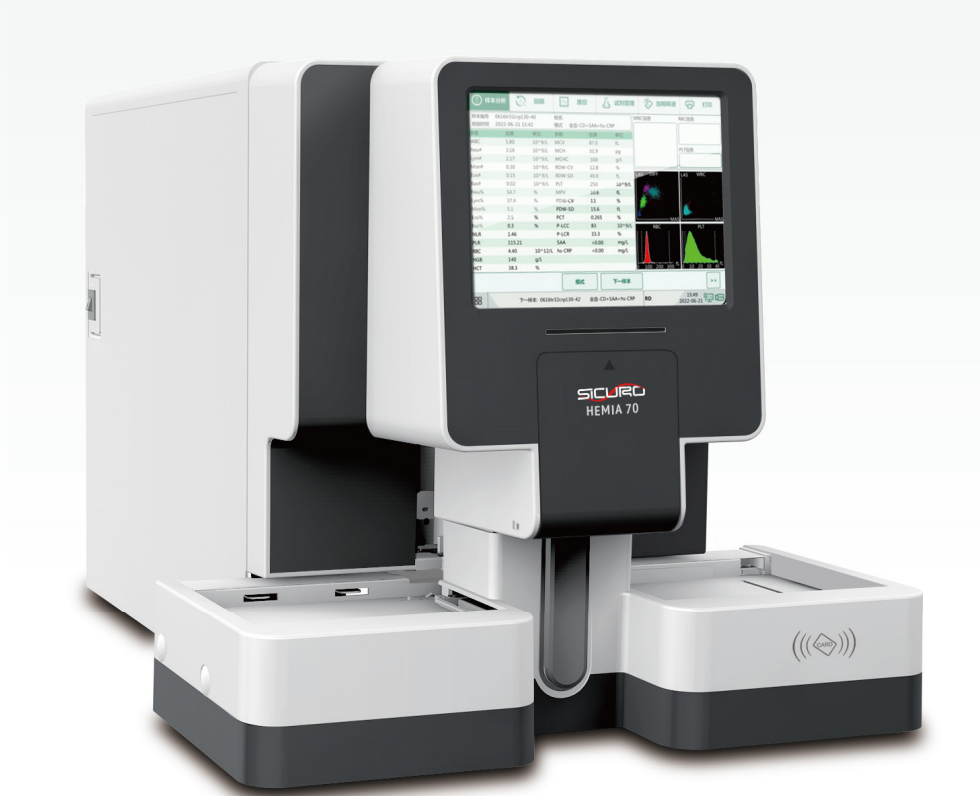


## Auto Hematology Analyzer



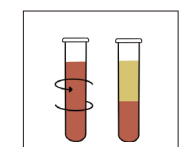
**Blood routine / W-CRP / SAA**

Rail-type and open proof, while detecting blood conventional + W-CRP + SAA

# HEMIA 70

Auto Hematology Analyzer

Two types of instruments: detection containing [blood routine + W-CRP+ SAA] (optional)

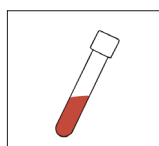


Centrifugation of samples



CRP/Hs-CRP/SAA

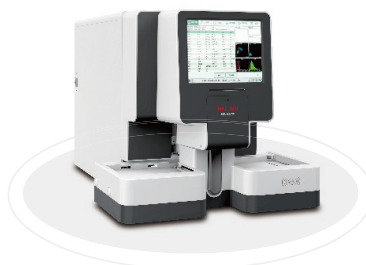
Biochemical analyzer



Collection of blood



Automatic five classification blood cell analyzer



HEMIA 70



HEMIA 70 lite

(Tests that do not include W-CRP+ SAA)

## CRP clinical significance

• CRP is one of the acute concentration proteins. After 6-8H after the infection, it began to rise, and the 24-48h reached its peak. The level of elevation is positively related to the degree of infection. It is often used to identify bacterial infections and viral infections. When viral infections, CRP will increase, and when viral infections, CRP will not rise.

### ◎ CRP:

For body infection and inflammation, it is often used to identify bacterial infections and virus infections

### ◎ High sensitivity CRP (Hs-CRP):

Evaluate the risk of cardiovascular assessment, quickly reflect the early micro lesions of the body or myocardial cell damage, etc.

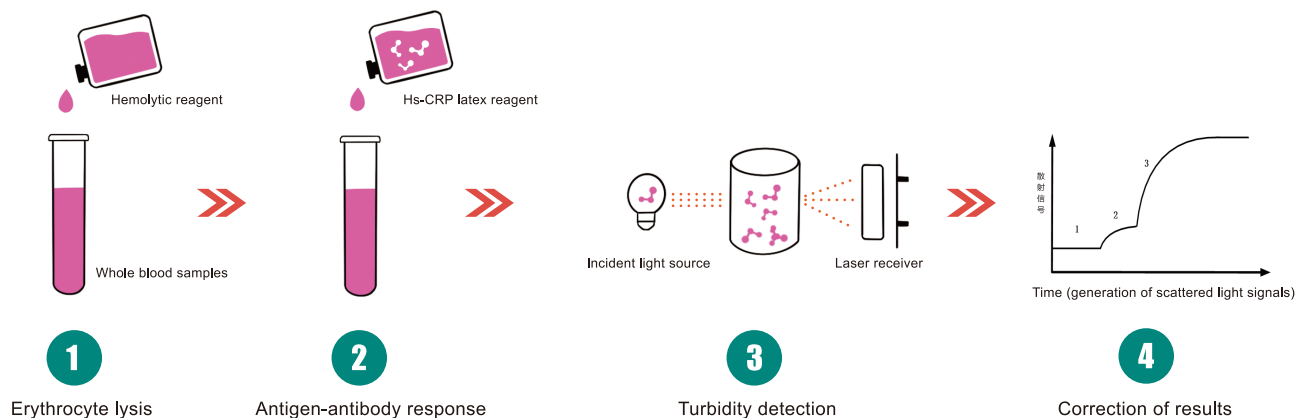


### ◎ Full range CRP (W-CRP):

0.2-320mg/L ultra-width detection range, providing more auxiliary diagnostic references for clinical clinical

## W-CRP/SAA detection principle:

Latex enhanced immune nephelometry method, IFCC recommended method



Compared

Parameters	HEMIA 5D	HEMIA 60	HEMIA 70
Type	Auto Hematology Analyzer	Auto Hematology Analyzer +CRP\SAA	Auto Hematology Analyzer +CRP\SAA
Principle	Tri-angle laser scattering, flow cytometry for WBC differentiation and count Impedance for RBC and PLT count, Cyanide-free method for HGB	Tri-angle laser scattering, flow cytometry for WBC differentiation and count Impedance for RBC and PLT count Cyanide-free method for HGB, Laser Scattering Nephelometric Method for CRP/SAA	Tri-angle laser scattering, flow cytometry for WBC differentiation and count Impedance for RBC and PLT count Cyanide-free method for HGB,Laser Scattering Nephelometric Method for CRP/SAA
Injection method	Open sample injection	Open sample injection	Automatic sample injection、Open sample injection
Throughput	60 samples per hour	60 samples per hour	80 samples per hour
Parameters	28 blood cell test parameters + 4 research parameters , 2 histograms and 4 scatter plots are available	28 blood cell test parameters + 8 research parameters + 4 specific protein parameters, 2 histograms and 4 scatter plots are available	28 blood cell test parameters + 8 research parameters + 4 specific protein parameters, 2 histograms and 4 scatter plots are available
Calibration	Manual calibration, auto calibration fresh blood calibration	Manual calibration, auto calibration fresh blood calibration	Manual calibration, auto calibration fresh blood calibration
Quality control	L-J QC, X-B QC	L-J QC, X-B QC	L-J QC, X-B QC
Sample type	Venous whole blood, Peripheral whole blood, Prediluted blood	Venous whole blood, Peripheral whole blood, Prediluted blood	Venous whole blood, Peripheral whole blood, Prediluted blood
Sample volume	Whole blood model 9μl Prediluted mode 20μL	Whole blood CD mode 15μl, whole blood CD+W-CRP mode17μl, whole blood CD+SAA mode 17μl, 18μl in whole blood CD+W-CRP +SAA mode and 20μl in prediluted CD mode	Whole blood model 17.5μl
Reagent	Lyses、Diluent	Lyses、Diluent、W-CRP Reagents、SAA Reagents	Lyses、Diluent、W-CRP Reagents、SAA Reagents
Print	Built-in thermal printer Support external printer	Support external printer	Support external printer
Interface	4 USB ports, 1 Network port, protocol, support bi-directional LIS connection	4 USB ports, 1 Network port, protocol, support bi-directional LIS connection	4 USB ports, 1 Network port, protocol, support bi-directional LIS connection
Power supply	AC 100V-240V, 50Hz/60Hz±1Hz	AC 200V-240V, 50Hz±1Hz	AC 200V-240V, 50Hz±1Hz
Temperature	10°C-30°C	10°C-30°C	10°C-30°C
Dimensions	430mm*450mm*430mm (L * W * H)	352mm*468mm*573mm (L * W * H)	580mm*560mm*780mm (L * W * H)
Weight	28kg	33kg	65 kg
Display	10.4 inch color tough screen	10.4 inch color tough screen	10.4 inch color tough screen
Storage	50000	60000	60000

## Technical Specifications

<b>Principle</b>	Tri-angle laser scattering, flow cytometry for WBC differentiation and count Impedance for RBC and PLT count Cyanide-free method for HGB
<b>Throughput</b>	80 samples per hour
<b>Sample type</b>	Whole blood, trace whole blood, prediluted blood
<b>Storage</b>	60000 sample results with scattergrams and histograms
<b>Quality control</b>	L-J graph, X-B graph
<b>Weight</b>	65 kg
<b>Dimensions</b>	580 mm*560 mm*780 mm (L * W * H)
<b>Calibration</b>	Manual calibration, calibrator calibration, and fresh blood calibration
<b>Display</b>	10.4 inch color tough screen
<b>Sampling volume</b>	Whole blood model 17.5μL
<b>Reagents</b>	Diluents, Hemolytics, W-CRP reagent, SAA reagent
<b>Parameters</b>	28 blood cell test parameters + 8 research parameters + 4 specific protein parameters, Two histograms and four scatter plots are available
<b>Reagent management</b>	Support NFC card with W-CRP, SAA calibration curve, The calibration curve can be imported intelligently by swiping the card to realize automatic calibration
<b>Detection mode</b>	CBC、CBC+DIFF、CBC+DIFF+W-CRP、CBC+DIFF+SAA、W-CRP、SAA、W-CRP+SAA、CBC+DIFF+W-CRP+SAA

## Clinical reminder of joint detection of W-CRP and SAA infection

W-CRP concentration	SAA concentration	Clinical Hints
>50mg/L	100mg/L~500mg/L	There is a greater possibility of acute infection of bacteria, It is recommended to dynamically observe the W-CRP and SAA concentrations to evaluate the treatment effect
10mg~50mg/L	>500mg/L	Severe virus infection, bacterial infection, it is recommended to review after 12-24h

\* Blood routine, W-CRP, SAA joint testing. Infectious diseases are more common in clinical diseases. Due to the variety of pathogens, wide infection pathways, and large individual differences, they need to be judged in combination with comprehensive indicators.

## Sicuro Bioengineering Ltd

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