HORIBA
Medical

Microsemi CRP

World Exclusive Concept for Infection differentiation

A true Infection Finder



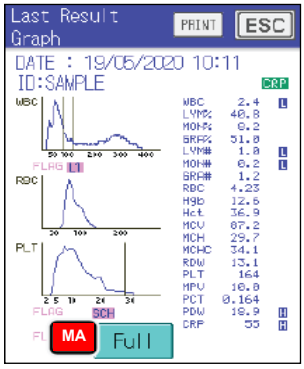
- Simultaneous measurement of 3Diff+CRP in whole blood.
- Micro sampling concept - 18 µL.
- Suitable in Pediatrics, Gynecology, Obstetrics patients.
- 4 minutes result time.
- Utility in Emergency & ICU department.
- Support in differential diagnosis of bacterial vs viral infection.
- Help in reducing unnecessary medication of antibiotics.

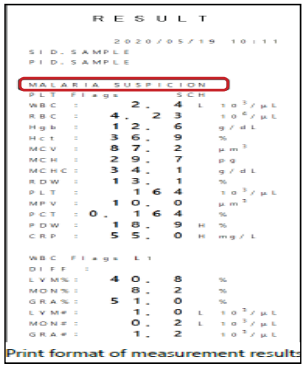
Easy and fast access to results

Malaria Suspicion Flag : MA Flag

- Screening Flag for Malaria Infections
- Detect P. Vivax / P.Falciparum & Mixed Infections
- Monitoring & Severity Assessment of Malaria follow up cases
- Screening tool for ENDEMIC Malaria zones

MALARIA FLAG

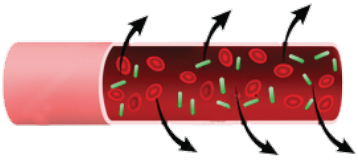




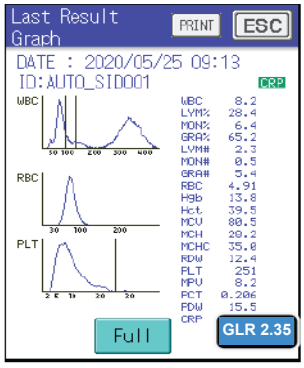
GLR (Absolute Granulocytes to Absolute Lymphocytes Ratio)

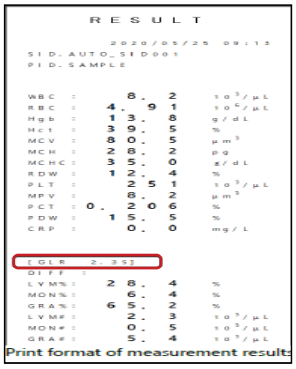
*Absolute GLR

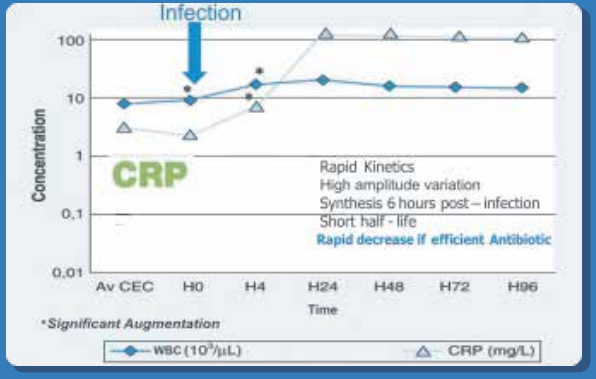
- Prognosis factor of some pathological disorders and infections
- Sepsis Monitor
- Cytokine Storm monitor



GLR RESULT







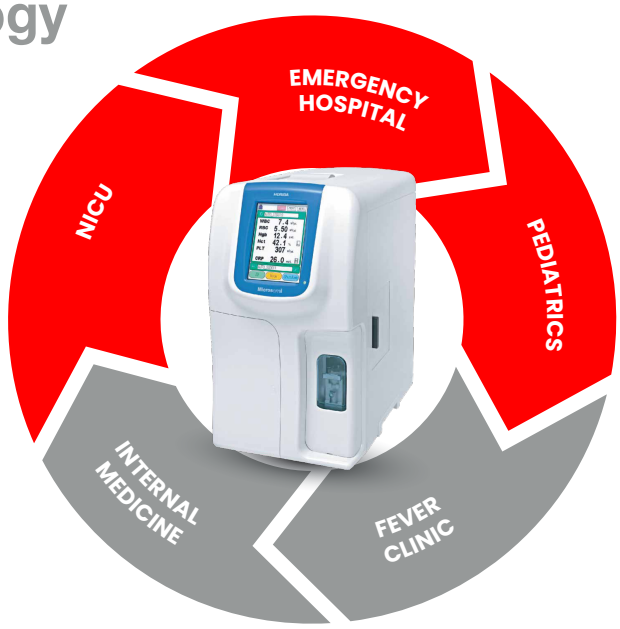
Viral infection / Bacterial infection

	Viral infection	Bacterial infection
WBC	Slightly increase(↗)	Increase (↑)
3Diff CBC	Lymphocyte (↑) increase	Granulocyte (↑) increase
CRP	Slightly increase	Increase (Over 20mg/L)
Antibiotic	Not effective	effective

CBC+CRP test Interpretation

Unique and proven technology

For Quick & Accurate Results



RBC, PLT, WBC with 3 Part Differential Count

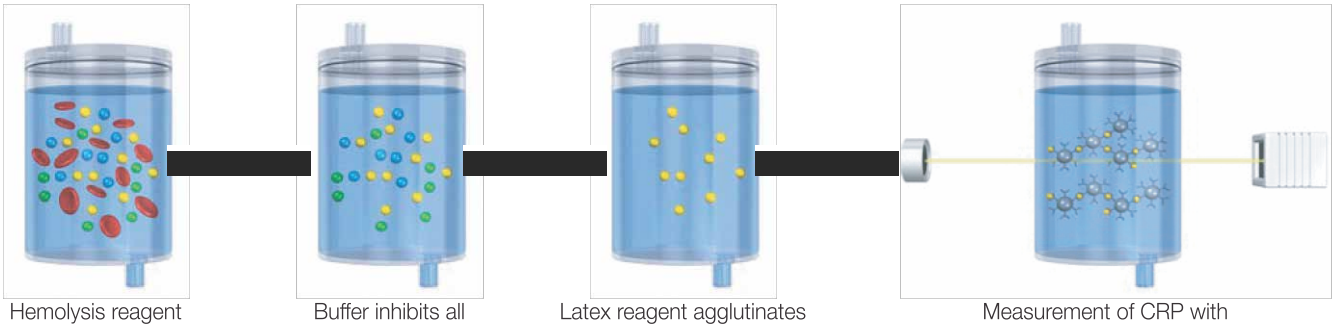
Precise cellular identification through electronic impedance variation method.

Haemoglobin measurement

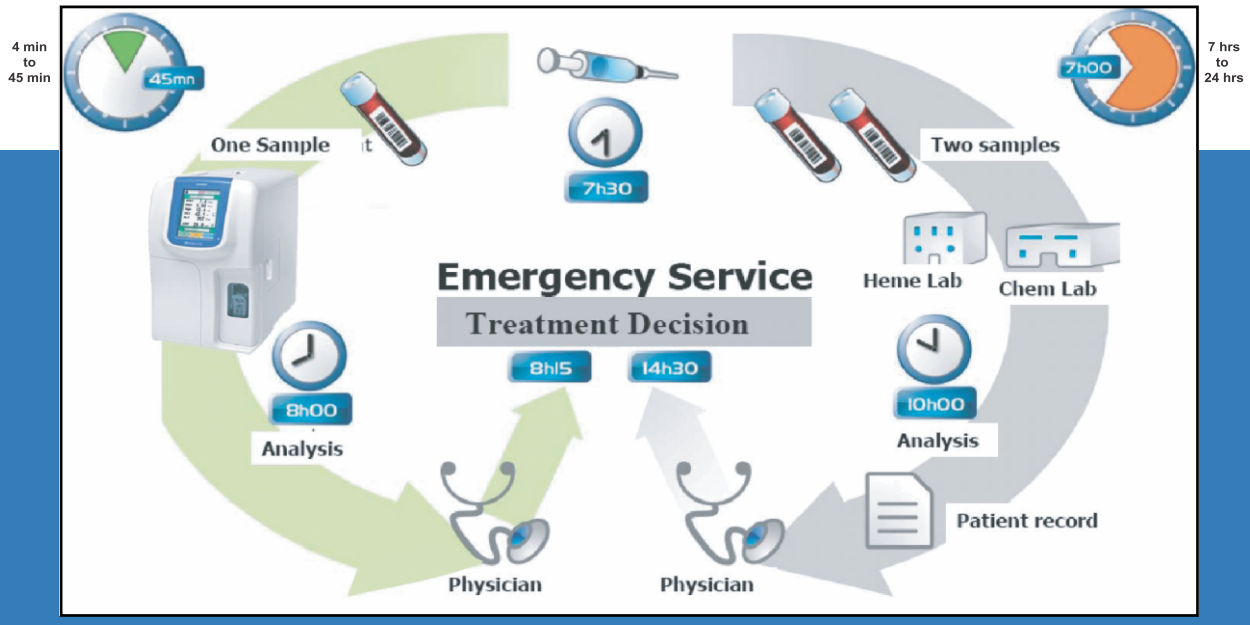
Photometry with ABX Lysebio reagent, a cyanide-free lyse

CRP measurement - Quantitative

Proven and exclusive immunoturbidimetry technology for rapid and accurate patient diagnosis.



Hemolysis reagent lyses RBC | Buffer inhibits all antigens, except CRP | Latex reagent agglutinates CRP on beads | Measurement of CRP with spectrophotometry (7 measurements)



Microsemi CRP



PHYSICAL SPECIFICATIONS

Dimensions & weight of the analyser (approximate)

Height	Width	Depth	Weight
430 mm 16.9 in	262 mm 10.3 in	450 mm 17.7 in	19 kg 42 lbs

Printer
Built-in thermal printer

Throughput
CBC+CRP: 15 tests / hour
CBC: 55 tests / hour

Sound level
< 65 dBa

Operating temperature
18°C to 30°C (65°F to 86°F)

Relative humidity
25% to 85% (no condensation)

Specimen volume
CBC 10 µL
CBC + CRP 18 µL

Power requirements
Power supply: 100 V to 240 V

Power consumption: 85 VA

Reagents
Diluent: ABX Minidil LMG (10L, 20L)
Lyse: ABX Lysebio (0.4L, 1L)
Cleaner: ABX Cleaner (1 L)

Control blood for both CBC and CRP
ABX Minotrol CRP (3 levels)

Sampling mode
Open tube
Two tube adapters (for standard and micro tubes)

Sensor
Reagent level, waste level, temperature.

METHODS

Counted / Measured parameters

Abbreviation	Parameters
WBC	White Blood Cells
RBC	Red Blood Cells
HGB	Haemoglobin
HCT	Haematocrit
PLT	Platelets
LYM#	Lymphocytes absolute value
MON#	Monocytes absolute value
GRA#	Granulocytes absolute value
CRP	C-reactive protein

Calculated parameters

Abbreviation	Parameters
MCV	Mean Corpuscular Volume
MCH	Mean Corpuscular Haemoglobin
MCHC	Mean Corpuscular Haemoglobin Concentration
RDW	Red blood cells Distribution Width
PDW	Platelets Distribution Width
PCT	Plateletcrit
MPV	Mean Platelet Volume
LYM%	Lymphocytes percentage
MON%	Monocytes percentage

SOFTWARE SPECIFICATIONS

Data Processing
LCD colour touch screen, power indicator.
Memory:
- 200 patient results with histogram
- 180 QC result (CBC + CRP)
- 11 CRP calibrations + 11 CBC calibrations

Flags:
- Flag description is obtained when pressing the flag key
- Morphology flags are adjustable to accommodate specific populations and/or geographical locations.

Compact flash memory (CF):
- Patient and QC results archive
- XB and calibration archive
- Upload of QC target values on to the analyser

Transmission of patient & QC results to LAN (local area network)
Communication protocols: ABX and ASTM
External output: RS-232C and Ethernet
Optional barcode reader

Quality control management
- 60 results per level stored (3 levels are available)
- XB graphs: 20 samples are counted as 1 batch with summary calculations for MCV, MCH and MCHC. 60 batches stored.

Logs
Reagents, calibration, maintenance, errors, blank cycle.

PARAMETERS & PERFORMANCE

19 Parameters

CRP		
WBC	LYM# & LYM%	MCHC
RBC	MON# & MON%	RDW
HGB	GRA# & GRA%	MPV
HCT	MCV	PCT
PLT	MCH	PDW

Linearity	Linearity Limits	Visible range	Unit
WBC	0 - 80	0 - 99.9	10^3/µL
RBC	0 - 7.5	0 - 10	10^6/µL
HGB	0 - 23	0 - 25	g/dL
HCT	0 - 65	0 - 75	%
PLT	0 - 999	0 - 2000	10^3/µL
CRP (whole blood)	0 - 200	0 - 230	mg/L
CRP (serum, plasma)	0 - 150	0 - 170	mg/L

Precision	CV%	At
WBC	within 2.5	(7.5 x 10^3/µL)
RBC	within 1.5	(4.50 x10^6/µL)
HGB	within 1.5	(13.5 g/dL)
HCT	within 2.0	(35.0 %)
PLT	within 5.0	(250 x10^3/µL)
CRP	within 10.0	(10.0 mg/L)
CRP	within 4.0	(50.0 mg/L)
CRP	within 8.0	(120.0 mg/L)

CERTIFICATION

WEEE Directive
IEC 61326-2-6 : 2005 class B
IEC 61000-3-2:2006
IEC 61000-3-3:2005
IEC 61010-1: Edition 2 or edition 3. Mandatory starting October 2013
IEC 61010-2-81:2001 + A1:2003
IEC 61010-2-101:2002

RUO parameters: **R**esearch **U**se **O**nly parameters

Valid for version CPU 1.00 / CNTmain 1.00 / CNTsub 1.02 / CNTsub2 1.06

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Operating IMS

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