

Microsemi CRP

Process efficiency in Hematology



Microsemi CRP

World exclusive concept for the most precious outcome, the smile of your patient.



Simultaneous blood analysis + CRP measurement, along with data management

- CBC+CRP results in 4 minutes (15 tests / hour)
- CBC results in 1 minute (55 tests / hour)
- Whole blood Micro-sampling CBC: 10µL / CBC+CRP: 18µL
- Cyanide-free reagent
 - Compact and lightweight
- Easy to use and to handle



Elegant and convenient

- Incredibly compact for a dual purpose system
- Space saving: can be placed anywhere
- Attractively designed
- Extremely quiet





Whole blood sampling

- Open tube (1)
- Tube adapters for standard and micro tubes (2)
- Holder cover for secure sampling (3)
- Easy handling

A smile that comes from Japan

After a successful life in Japan, the Microsemi CRP is coming to you to make you benefit of its unique and exclusive performances.

"emi" refers to easy operation, maintenance free and information intelligence.

Also the phonetic "emi" means "smile" in Japanese, which may be written "笑み" or "えみ".

The Microsemi CRP is the latest generation of the Micros CRP series that can, from a single and small volume of blood sample (18 µl), provide simultaneously a rapid complete blood cell count with a 3 part-differential analysis and CRP result, in only 4 minutes.



Information gathered from the Microsemi CRP is of great clinical value, especially when used to screen patient samples. The presence of significant inflammation, particularly when caused by bacterial infections, or other treatable inflammatory disease, is readily demonstrated, and the patient can be handled in appropriate manner.

The Microsemi CRP offers more benefits for conditions that require progressive observation, such as infection and inflammation. Indeed, the quality of the results given by the Microsemi CRP is comparable to any larger, more sophisticated laboratory analyser, and can be used as a baseline to monitor the progress of the patients throughout the term of their subsequent therapy.

Since the Microsemi CRP can complete its measurement within a short time frame, accurate treatment can be performed on the spot. Emergency response is greatest especially with children in whom condition such as inflammation and infection can advance quickly and require urgent countermeasures. Measurement is possible immediately after collection of the blood sample, which makes this analyser the best choice for emergency testing situations.

In addition, the Microsemi CRP is extremely easy to operate (no need for a specialized staff), is very robust and requires a minimum amount of maintenance. Also, in consideration of environment, a non-cyanide reagent is used for haemoglobin measurement.

More than 2000 Microsemi CRP are currently successfully used in Japan. They are particularly appreciated for their accuracy, convenience and above all, for the efficient and fast solution they provide to the physicians.

Trust shows with the smile of your patients!

• Ideal for emergency, paediatrics and near patient testing

• "Zero maintenance" concept



Ideal for small samples

- Capillary and venous blood
- No sample pre-treatment
- CBC mode on whole blood
- CBC+CRP mode on whole blood and serum



Ready and easy to use CRP reagent

- All-in-one: 3 reagents in the same cartridge
- Two cartridges per box
- Each cartridge offers 50 tests
- No need to take the cartridge out after use

Unique and proven technology for your peace of mind

RBC, PLT, WBC with 3 Part Differential Count

Precise cellular identification through electronic impedance variation method.

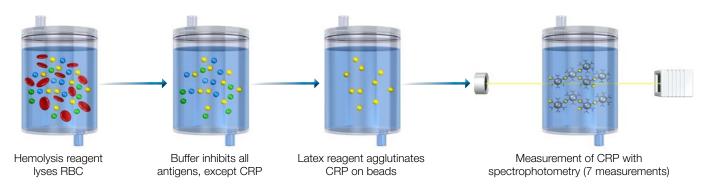
Haemoglobin measurement

Photometry with ABX Lysebio reagent, a cyanide-free lyse



CRP measurement

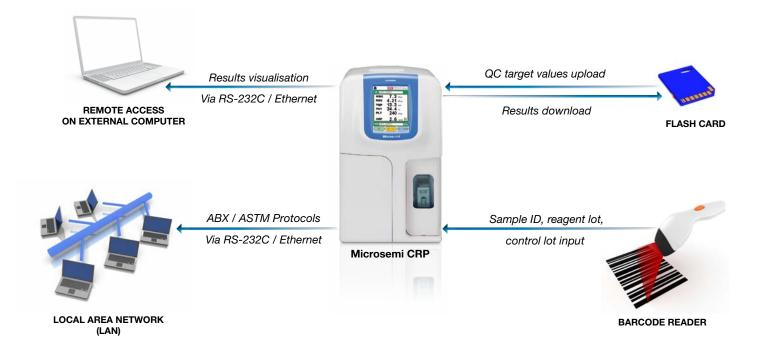
Proven and exclusive immunoturbidimetry technology for rapid and accurate patient diagnosis.



Flexible network capability

Easy integration into laboratory information system

Perfectly adapted to point of care environment



Easy and fast access to results

Data transfer with flash card

- Easy archiving from flash card to PC hard disk
- Patient and QC results archive
- XB and calibration archive
- Upload of QC target values on to the analyser



Integrated thermal printer

- Full data print-out in one minute
- 19 parameters for CBC and CRP
- WBC, RBC and PLT curves
- No need for ink cartridge



Colour touch screen

- User-friendly interface
- Virtual keyboard
- 200 patients results stored
- 180 QC results stored

Comprehensive and efficient data management



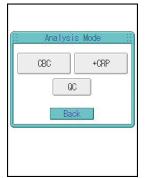
Summary with main parameters clearly displayed.



Reagents management: Lot, expiry date, real-time status for CRP reagent, logs.



QC traceability: Lot, 3 levels, 3*60 results, Levey-Jennings, XB.



Simple and fast analysis mode selection: CBC or CBC+CRP or QC.

Microsemi CRP

Haematology Analyser

PHYSICAL SPECIFICATIONS

Dimensions & weight of the analyser (approximate)

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

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 + CRP 18 µL

Power requirements

Power supply: 100 V to 240 V

50 Hz to 60 Hz

Power consumption: 85 VA

Reagents

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

ABX Miniclean (1L) Cleaner CRP: CRP Unit 50 (50 tests per cartridge, 2 cartridges per box)

Control blood for both CBC and CRP

ABX Minotrol CRP (3 levels)

Sampling mode

Open tube

Two tube adapters (for standard and micro tubes)

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

TYM# Lymphocytes absolute value MON# Monocytes absolute value GRA# Granulocytes absolute value CRP C-reactive protein

Calculated parameters

MCV Mean Corpuscular Volume MCH

Mean Corpuscular Haemoglobin
Mean Corpuscular Haemoglobin Concentration MCHC

RDW Red blood cells Distribution Width Platelets Distribution Width

PDW PCT Plateletcrit

MPV Mean Platelet Volume LYM% Lymphocytes percentage Monocytes percentage MON% GRA% Granulocytes 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 archiveXB 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.
- Levey-Jennings graphs: visualization of QC results in the order of

measurement with repeatability alert.

Reagents, calibration, maintenance, errors, blank cycle.

PARAMETERS & PERFORMANCE

19 Parameters

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

_inearity	Linearity Limits	Visible range	Unit
VBC	0 - 80	0 - 99.9	10³/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	10³/μL
CRP (whole blood)	0 - 200	0 - 230	mg/L
CRP (serum, plasma)	0 - 150	0 - 170	mg/L

Precision

within 2.5 $(7.5 \times 10^3/ul)$ **WBC** (4.50 x10⁶/µL) RBC within 1.5 HGB HCT within 1.5 (13.5 g/dL) (35.0 %) within 2.0 PLT (250 x10³/µL) within 5.0 CRP within 10.0 (10.0 mg/L) CRP within 4.0 (50.0 mg/L) (120.0 mg/L) within 8.0

CERTIFICATION

CF IVD Directive 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: Research Use Only parameters

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







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