



**MicroMedica<sup>®</sup>**  
**Laboratories**  
Improving Lives Together

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# MICROBIOLOGY

## DEHYDRATED CULTURE MEDIA

### PRODUCT

❖ 0.1% Peptone Salt Diluent	❖ Antibiotic Assay Medium 5	❖ Bismuth Sulphite Agar
❖ 2-XYT Agar	❖ Antibiotic Assay Medium 9	❖ Blood Agar Base
❖ A1 Broth	❖ Arginine Dihydrolase Broth	❖ Brain Heart Infusion Agar
❖ Acetate Agar	❖ Arginine Dihydrolases Broth	❖ Brain Heart Infusion Broth
❖ Acetobacter Agar (Glucose)	❖ Aseptic Packing Line Media	❖ Brilliant Green Agar
❖ Acetobacter Agar (Mannitol)	❖ Ashby's Glucose Agar	❖ Brucella Agar Base
❖ Acetobacter Broth (Glucose)	❖ Ashby's Mannitol Agar	❖ Buffered Peptone Water
❖ Acetobacter Broth (Mannitol)	❖ Ashby's Mannitol Broth	❖ Burkholderia Cepacia Agar Base
❖ Actinomycecte Agar	❖ Ashby's Sucrose Agar	❖ Bushnell Haas Agar
❖ Actinomycetes Agar	❖ Ashby's Sucrose Broth	❖ Bushnell Haas Broth
❖ Actinomycetes Broth	❖ Asparagine Broth	❖ Candida Agar
❖ Agar Agar powder Type II (PTC Grade)	❖ Asparagine Proline Broth	❖ Casitone Agar
❖ Aleksandrow Agar (KSB)	❖ Azide Dextrose Broth	❖ Casitose Yeast Extract Broth (CAYE)
❖ Aleksandrow Broth (KSB)	❖ Azotobactor Agar (Glucose)	❖ Cetrimide Agar
❖ Alkaline peptone Water	❖ Azotobactor Agar (Mannitol)	❖ Cetrimide Agar (Harmonized)
❖ Alternate Thioglycolate medium	❖ Azotobactor Broth (Glucose)	❖ Cetrimide Broth
❖ Anaerobic Agar	❖ Azotobactor Broth (Mannitol)	❖ Chapman Stone Agar
❖ Antibiotic Assay Medium 1	❖ Bacillus Agar	❖ Chocolate Agar Base
❖ Antibiotic Assay Medium 11	❖ Bacillus Medium	❖ Chromogenic Bacillus Medium
❖ Antibiotic Assay Medium 19	❖ Baird Parker Agar Base	❖ Chromogenic Coliform Agar
❖ Antibiotic Assay Medium 2	❖ Bifidobacterium Agar	<b>AND MANY MORE</b>
❖ Antibiotic Assay Medium 3	❖ Bile Esculin Agar	
❖ Antibiotic Assay Medium 32	❖ Bile Esculin Azide Agar	
❖ Antibiotic Assay Medium 39	❖ Bile Salt Agar	





## BLOOD COLLECTION TUBES

### Vacuum Blood Collection Tubes:

- ◆ Plain
- ◆ EDTA K2
- ◆ EDTA K3
- ◆ Clot Activator & Silicone Coated Interior
- ◆ Sodium Fluoride / Potassium Oxalate
- ◆ Sodium Fluoride / K3 EDTA
- ◆ Sodium Heparin
- ◆ Lithium Heparin
- ◆ SST Gel
- ◆ Sodium Citrate 3.2%
- ◆ Sodium Citrate 3.8%
- ◆ 3.8% Buffered Tri Sodium Citrate

### Non Vacuum Blood Collection Tubes:

- ◆ Plain
- ◆ EDTA K2
- ◆ EDTA K3
- ◆ Clot Activator & Silicone Coated Interior
- ◆ Sodium Fluoride / Potassium Oxalate
- ◆ Sodium Fluoride / K3 EDTA
- ◆ Sodium Heparin
- ◆ Lithium Heparin
- ◆ SST Gel



## SEMI AUTOMATIC BIOCHEMISTRY ANALYZER (MML - SA - 010)

- ◆ Low Maintenance
- ◆ 7 Analysis Methods
- ◆ Automatic 7 filters + 1 free positions  
Superior quality flowcell with quartz window
- ◆ Extremely precise temperature control for better results (25°, 30°, 37° C Peltier)
- ◆ High performance Chemistry analyzer compatible with all biochemistry reagents
- ◆ 7 inch colour display with online graph
- ◆ Multi-standard mode with facility to input concentration of standard and absorbance manually





# SEMI AUTOMATIC BIOCHEMISTRY ANALYZER (MML - SA - 020)

- 7-inch color touch screen
- Humanized software interaction
- Customized testing items supported
- Storage up to 100,000 records
- Less and easy maintenance
- Real-Time display of reaction curve



## MAIN TEST KITS

**Hepatic Function** ALB, TP, ALP, AST (GOT), ALT (GPT)  
GGT, DB, TB

**Inorganic Ions** Ca, Cl, Fe, K, Mg, Na, P

**Kidney Function** CREA, UA, UREA

**Cardiac Biomarker** CK, CK-MB, HBDH, LDH

**Blood Lipids** CHOL, TG, HDL, LDL, ApoA1,  
ApoB, Lp (a)

**Others** AMY, GLU

## SPECIFICATIONS

**Analysis methods** Endpoint method, rate method, two-point method, multi-standard method, dual-wave-length method, two-point endpoint method.

**Sample type** Serum, plasma, urine, cerebrospinal fluid

**Filter** 340nm,405nm,450nm,505nm, 546nm,578nm,630nm,670nm(optional)

**Output** Built-in thermal printer or external printer

**Sample volume** 1μl-5000μl

**Temperature control** Preincubator 37°C, colorimetric incubation system 25°C, 30°C, 37°C and room temperature

**Sleep function** Set the sleep time of the halogen lamp to extend its service life

**Interface** Equipped with standard USB interface

**Colorimetric mode** Flowcell Cuvette

**Absorbance range** 0~4.0A

**Absorbance accuracy** 0.0001A

**Size** 340mm (D)x260mm (W)x 142mm (H)

**Power supply** DC 12V 6A

**Net weight** 4.6kg



# FULLY AUTOMATIC BIOCHEMISTRY ANALYZER (MML - FA - 200)

## A Revolutionary Automatic Biochemistry Analyzer with

- Compact design : 565mm X 415mm X 350mm
- Easy to carry : Net weight <23kg

## Optimal Substitution of Semi-Auto Biochemistry Analyzer

- Minimal labor required
- Independent mixing probe
- Utility of reagents decreased : 300ul/test
- Efficiency speed : 200 tests/hour
- User friendly : Smart and easy-operating software
- High Accuracy : Minimal operating/random errors
- High reputation from clinics

## Optical System

- Light Source : halogen -tungsten lamp
- Wavelength : 300-800nm, 9 wavelengths, precision
- Absorbance Range : 0-3.0 Abs
- Resolution : 0.0001 Abs
- Rear Spectrophotometry

## Sample/Reagent Handling

- Sample volume : 2-50ul,0.1 ul step
- Sample Dilution : Automatic/Manual pre-dilution, with dilution ratio up to 1:20
- Reagent Position : 40 pcs (With refrigerated function, 2-8°C)
- Reagent Volume : 10-300,0.1 ul Step





# FULLY AUTOMATIC BIOCHEMISTRY ANALYZER (MML - FA - 400)



## Overall Performance

Equipment type	Fully automatic, discrete, STAT priority
Throughput	400T/H for photometry tests, 800T/H with ISE
Test principle	Colorimetry, turbidimetry, ISE
Analysis method	End point, kinetics, fixed time, etc. support single/double wavelength
Simultaneous analysis	110 colorimetric items and 3 ISE items (K, Na, Cl optional)

## Sample unit

Sample position	115 sample positions
Sample volume	1.5µL-35µl, 0.1µl stepping
Sample cuvettes specification	Standard cup, original blood tube, multi specification tube available (10-13) mm x (75-100) mm
Sample barcode	code 128, code 39, code 91.1 2of5 UPC/EAN
Sampling technology	Liquid level detection, clot detection and collision protection

## Reagent unit

Reagent probe	Liquid level detection and collision protection.
Reagent volume	20µl-350µl, 1 µl stepping
Reagent position	Double reagent disk up to 112 positions
Reagent barcode	Code128

## Reaction unit

Reaction Cuvette	120 positions optical plastic cuvettes
Total volume of reaction liquid	120µl-450µl.
Reaction temperature	37C±0.1C
Reaction disk constant temperature	Circulating water
Mixing needle	Blending immediately after joining reagent
Reaction cuvette cleaning	7 steps 11 steps by warm water rinsing
Wastewater treatment	Two diffusers for high and low concentration waste water with the function of concentrated waste liquid level alarm



## 3 PART HEMATOLOGY ANALYZER (MML-HA-300)



### Reliable Results

- Multiple research parameters
- Accurate hardware
- High accuracy and precision
- Minimum sample consumption
- Large 10.4 Inch Display



### Easy Operation

- User friendly software
- Multiple external interfaces
- Real-Time display of reaction curve
- Up to 60 samples per hour



## 2 Reagent System



### Easy Maintenance

- Automatic and manual maintenance
- Multiple self-checking maintenance
- Modular-design structure
- Anti-blocking and blockage removal design



### Compact Design

- Suitable for various detection sites
- Integrated design, no need for additional auxiliary instruments



# 5 PART HEMATOLOGY ANALYZER (MML-HA-500)

## Specifications



<b>Display</b>	10.4" color LED screen
<b>Throughput</b>	60 samples/h
<b>Sample Volume</b>	20µL(whole blood mode); 20µL (pre-diluted mode)
<b>Parameters</b>	29 parameters + 2 histograms   +2 scattergrams
<b>Calibration</b>	Manual and Auto-calibration
<b>Sample type</b>	Capillary whole blood   Venous whole blood Pre-diluted blood
<b>Quality Control</b>	L-J QC and X-B QC
<b>Storage</b>	600,000 test records
<b>Power</b>	100V-240V (50/60Hz)
<b>Dimensions</b>	325 mm (W)*465 mm (H)   *475 mm (D)
<b>Weight</b>	28Kg
<b>Principle</b>	Chemical dye   Tri-angle Laser scatter Flow cytometry technology

- High accuracy
- Effective results analysis ability
- Real-time display of reaction curve
- Easy maintenance
- User friendly software
- Easy operation



**Test Parameters for HA 500**

**29 Parameters**

### WBC group (15)

WBC, Bas#, Bas%, Neu#, Neu%  
Eos#, Eos%, Lym#, Lym%, Mon#  
Mon%, \*ALY#, \*ALY%, \*LIC#, \*LIC%

### RBC group (8)

RBC, HGB, MCV, MCH, MCHC  
RDW-CV, RDW-SD, HCT

### PLT group (6)

PLT, MPV, PDW, PCT, P-LCC, P-LCR



# ELECTROLYTE ANALYZER (MML-EA-01)

## Specifications

- Sample Size : 100  $\mu$ l
- Sample Type : Whole Blood, Serum, Plasma, Urine etc.
- Sample Application – Syringe, Sample Cup, Collection Tubes, Capillary.
- Analysis Time : 55 Seconds.
- Temperature : Room Temperature, 15°C–32°C (60°F–90°F).
- Dimensions HXWxD : 38.5 X 32.5 X 30.5 Cm.
- Weight: 6 Kgs (13 Lbs) Approx.
- Output : Built-in, Thermal Printer 32 Characters Wide, USB for LIS Interface,
- Display : 5 inch
- Electronic : Microprocessor Controlled.
- Relative Humidity : < 85%, Non-condensing.
- Normal Value : Flagging Of Abnormal Results; User Programmable Ranges.
- Calibration : Fully Automatic, 1-point With Every Sample; 2-point Every 4 Hours.
- Power Requirements : 110–240 V, 50/60 Hz (self-adjusting) 1.4 Amp Max.
- Storage : Sample upto 1 Lakh along with patient ID



Assay	Measuring Range (Blood Sample)	Measuring Range (Urine Sample)	Measuring Accuracy
Na	20.0–200.0 mmol/L	3.0–300.0 mmol/L	0.1% Or higher
K	0.50–15.00 mmol/L	5.00–120.00 mmol/L	0.5% Or higher
Cl	25.0–200.0 mmol/L	25.0–500.0 mmol/L	0.5% Or higher
iCa	0.10–5.00 mmol/L		0.5% Or higher
pH	6.00–9.00 Units		0.5%, Or higher

**Battery :** Optional for 2 hours

## Available Parameter

- Sodium | Potassium | Chloride | Calcium (Ion) | Lithium | pH
- Sodium | Potassium | Chloride | Calcium (Ion) | Lithium
- Sodium | Potassium | Chloride | Calcium (Ion) | pH
- Sodium | Potassium | Chloride | Calcium (Ion)
- Sodium | Potassium | Chloride | Lithium
- Sodium | Potassium | Calcium (Ion) | Lithium
- Sodium | Potassium | Chloride | pH
- Sodium | Potassium | Calcium (Ion) | pH
- Sodium | Potassium | Chloride
- Sodium | Potassium | Calcium (Ion)
- Sodium Potassium





# ESR ANALYZER

Measures ESR Directly from EDTA Tubes In 20 minutes



“Opto-pulse AI Technology”

**30**  
Test/Hr

### COST EFFICIENCY

- 🔧 Consumables-free
- ♻️ No biohazard waste

### USABILITY

- 🕒 Results in 20 minutes
- 📺 Large 7" Capacitive Display

### PERFORMANCE

- 🎯 95% agreement with Modified Westergren method



# RAPID TEST

- ❖ Sickle Cell
- ❖ Amphetamine
- ❖ Benzodiazepines
- ❖ Cocaine
- ❖ Cannabinoids
- ❖ Barbiturates
- ❖ Opiate (Morphine)
- ❖ 6 in 1(Cocaine, Amphetamine, Barbiturate, Benzodiazepine, THC, Opiate)
- ❖ Malaria Pf Antigen
- ❖ Malaria Pf-Pv Antigen
- ❖ Malaria Pf-Pan Antigen
- ❖ Dengue NS1
- ❖ Dengue IgG/IgM
- ❖ Dengue NS1+IgG/IgM
- ❖ Chikunguniya IgG/IgM

- ❖ hCG Pregnancy Device
- ❖ hCG Midstream
- ❖ Urine Strips (10 P)
- ❖ LH Ovulation
- ❖ Filariasis IgG/IgM Ab
- ❖ Salmonella Typhi IgG/IgM
- ❖ H.Pylori Ab
- ❖ Leptospira IgG/IgM
- ❖ Japanese Encephalitis IgM
- ❖ Troponin T
- ❖ Troponin I
- ❖ IgE Rapid
- ❖ Scrub Typhus IgG/IgM
- ❖ Leishmania IgG/IgM
- ❖ Ferritin
- ❖ Vitamin D





# BIOCHEMISTRY REAGENTS

Product Description	Standard Pack Size (mL)	Product Description	Standard Pack Size (mL)	Product Description	Standard Pack Size (mL)
ALBUMIN	2x50 ml	CK NAC	2x25 ml	SODIUM MONO	50x1 ml
ALKALINE PHOSPHATASE	50x1 ml	CREATININE	2x50 ml	POTASSIUM MONO	50x1 ml
ALKALINE PHOSPHATASE	2x50 ml	CREATININE	2x100ml	CHLORIDE MONO	50x1 ml
AMYLASE MONO	10x1 ml	GLUCOSE	1x500 ml	Sickle Cell (Solubility Test)	50 Test
AMYLASE	2x10 ml	DIRECT HDL	2x40 ml	G6PD (QUALITATIVE)	1x25 Test
AMYLASE	2x25 ml	DIRECT LDL	2x10 ml	G6PD (QUANTITATIVE)	1x10 Test
BILIRUBIN TOTAL	2x50 ml	HDL/LDL CALIBRATOR	1x1 ml	COPPER	50x1 ml
BILIRUBIN DIRECT	2x50 ml	PHOSPHORUS	2x50 ml	AMMONIA	1x25 ml
CALCIUM MONO	50x1 ml	SGOT (AST)	2x25 ml	HOMOCYSTEINE	2x50 ml
CALCIUM	2x50 ml	SGPT (ALT)	2x50 ml	CRP TURBILATEX	50 Test
CHOLESTEROL	2x50 ml	TOTAL PROTEIN	2x50 ml	ASO TURBILATEX	50 Test
CK MB	2x10 ml	TRIGLYCERIDE	2x50 ml	RA TURBILATEX	50 Test
CK MB	2x25 ml	UREA	2x25 ml	ADA	2x50 ml
CK NAC	2x10 ml	URIC ACID	2x50 ml	GLUCOSE HEXOKINASE	1x50 ml





# BLOOD GROUPING REAGENTS

ANTI A

ANTI B

ANTI D

ANTI AB



# SEROLOGY

RPR

ASO

CRP

RA



**KEY**

CRP	40 Test
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**INTRODUCTION**  
C-reactive Protein (CRP) is a normal alpha globulin, which increases in inflammatory process. The name CRP is derived from the fact that this protein has the capacity to precipitate the antigenic carbohydrate of pneumococci. Elevated CRP levels are usually observed in a variety of infections and inflammatory conditions where there is tissue destruction.

The CRP level measurement is useful in differential diagnosis of bacterial septicemia and meningitis. CRP levels are always elevated after myocardial infection and surgery. The CRP test can also help in determining post-surgical complications.

**METHOD PRINCIPLE**  
Uniform latex particles are coated with anti-human CRP. The specimen containing CRP on mixing with latex reagent agglutinates, showing a positive test result. If CRP is absent, there will be no agglutination, indicating a negative test result.

**KIT CONTENTS**

Reagent Name	SCRPO00007
Volume	1.5 ml
	0.6 ml

**SEMI QUANTITATIVE METHOD**

- Using historic saline positive serial dilutions of the test specimen positive in the quantitative method 1:2, 1:4, 1:8, 1:16, and so on.
- Figure each division of the test specimen into separate reaction wells.
- Add one drop of CRP latex reagent to the drop of test specimen on the slide. Do not let the dropper tip touch the liquid on the slide.
- Using a mixing stick, mix the test specimen and the latex reagent uniformly over the entire circle.
- Immediately start a stop watch. Rock the slide gently back and forth, observing for agglutination macroscopically within 2 minutes.

**INTERPRETATION OF RESULTS**

**Quantitative Method**  
Agglutination in a positive test result indicates the presence of CRP in the test specimen. Anticoagulable levels of CRP in a negative test result indicate the presence of CRP in the specimen.



# SYRINGES

## Syringe Product Range :

We offer wide range of luer slip disposable syringes in various sizes ranging from 1ml to 50ml with desired variations in the needle sizes & gauges.

SIZE RANGE	LUER TIP		NEEDLE GAUGE	INDIVIDUAL PACKING	
	Slip	Lock	16G-30G	Blister	Ribbon
1ml	✓	*	✓	—	✓
2 ml	✓	*	✓	—	✓
2.5 ml	✓	*	✓	✓	✓
3 ml	✓	*	✓	✓	✓
5 ml	✓	*	✓	✓	✓
10 ml	✓	*	✓	✓	✓
20 ml	✓	*	✓	—	✓
50 ml	✓	*	✓	—	✓

## Blister Pack Needle Range :

Sr No.	Needle Size	Packing
1	Needle 16G X 1"	Blister
2	Needle 16G X 1.25"	Blister
3	Needle 16G X 1.5"	Blister
4	Needle 18G X 1"	Blister
5	Needle 18G X 1.5"	Blister
6	Needle 20G X 1"	Blister
7	Needle 20G X 1.5"	Blister
8	Needle 21G X 1.00"	Blister
9	Needle 21G X 1.25"	Blister
10	Needle 21G X 1.5"	Blister
11	Needle 22G X 1"	Blister
12	Needle 22G X 1.25"	Blister
13	Needle 22G X 1.5"	Blister
14	Needle 23G X 1"	Blister
15	Needle 23G X 1.25"	Blister
16	Needle 23G X 1.5"	Blister
17	Needle 24G X 1"	Blister
18	Needle 26G X 0.5"	Blister

## Product List Of Packed Needles :

Gauge	Hub Colour	Size	Diameter
16G	White	1", 1x1/4" 1X1/2"	1.60 mm
18G	Pink	1", 1X1/2"	1.20 mm
19G	Cream	1X1/2"	1.10 mm
20G	Yellow	1", 1x1/4" 1X1/2"	0.90 mm
21G	Green	1", 1x1/4" 1X1/2"	0.80 mm
22G	Black	1", 1x1/4" 1X1/2"	0.70 mm
23G	Blue	1", 1x1/4" 1X1/2"	0.60 mm
24G	Medium Purple	1", 1x1/4" 1X1/2"	0.55 mm
25G	Orange	1", 1x1/4" 1X1/2"	0.55 mm
26G	Brown	1/2", 1x1/2"	0.45 mm



**MicroMedica<sup>®</sup>**  
**Laboratories**  
Improving Lives Together

## **MICROMEDICA LABORATORIES PRIVATE LIMITED**

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