

Biochemistry Reagents

Mat Code	Material Description	Pack Size
ALBAQ1-01	ALBUMIN	6 x 20 ml
AMYAQ1-01	AMYLASE	4 x 20 ml
ALPAQ1-01	ALKALINE PHOSPHATASE	4 x 15 ml
GPTAQ1-01	ALAT (GPT)	6 x 20 / 6 x 5 ml
GOTAQ1-01	ASAT(GOT)	6 x 20 / 6 x 5 ml
BITAQ1-01	BILIRUBIN TOTAL	5 x 15 / 5 x 5 ml
BIDAQ1-01	BILIRUBIN DIRECT	5 x 15 / 5 x 5 ml
CAAAQ1-01	CALCIUM (A)	4 x 20 ml
CREAQ1-02	CREATININE	5 x 15 / 5 x 15 ml
CKNAQ1-01	CREATINE KINASE NAC	2 x 20 / 2 x 5 ml
CKMAQ1-01	CREATINE KINASE MB	2 x 20 / 2 x 5 ml
CHOAQ1-01	CHOLESTEROL	6 x 20 ml
HDLAQ1-01	HDL CHOLESTEROL (Direct)	2 x 18 / 2 x 6 ml
LDLAQ1-01	LDL CHOLESTEROL (Direct)	1 x 18 / 1 x 6 ml
CHDAQ1-01	CHLORIDE	4 x 20 ml
GGTAQ1-01	g-GLUTAMYL TRANSFERASE	1 x 20 / 1 x 5 ml
GLUAQ1-01	GLUCOSE	10 x 20 ml
LDHAQ1-01	LACTATEDEHYDROGENASE	1 x 20 / 1 x 5 ml
MAGAQ1-01	MAGNESIUM	4 x 20 ml
PHOAQ1-01	PHOSPHORUS	4 x 20 ml
TPRAQ1-01	TOTAL PROTEIN	6 x 15 ml
MTPAQ1-01	MICROPROTEIN	4 x 20 ml
TRGAQ1-01	TRIGLYCERIDE	4 x 20 ml
URCAQ1-01	URIC ACID	4 x 15 ml
UREAQ1-01	UREA	6 x 20 / 6 x 5 ml
MALAQ2-01	MICRO ALBUMIN	2 x 20 / 2 x 5ml
CRPAQ2-01	CRP	2 x 20 / 2 x 5ml
LIPAQ2-01	LIPASE	1 x 20 / 1 x 12 ml
HBAAQ2-01	HbA1c	2x15/2x5.5/1x75/4x0.5 ml

Controls & Calibrators:

CRNCNC-01	BioNorm	1 x 5 ml
CRNCNC-01	BioPath	1 x 5 ml
CRNCNC-01	BioCal	4 x 3 ml

Technical Specifications

<b>Throughput</b>	200 Tests / hour
<b>ISE (Optional)</b>	300 Test / hour
<b>System Functions</b>	
Analysis method	End Point, Fixed Time (2-point), Kinetic/Rate
Assay modes	Colorimetry, Turbidimetry, Single and Double reagent, Multi standard, Mono and Bi – Chromatic
<b>Sample / Reagent handling</b>	
Sample volume	2 - 50 µl 0.1 µl step
Sample dilution	2 to 40 times
Sample position	45 for cup/tube
Reagent position	45 for R1 and R2
Reagent volume	Reagent 1: 180-350 µl (Adjustable in 1 µl step) Reagent 2: 0 or 10-350 µl (Adjustable in 1 µl step)
<b>Reaction System</b>	
Reaction cuvette	60 (Dismountable)
Cuvette washing	On board laundry with 7 step washing system
Water consumption	5 - 6 litres / hour
Optical length of cuvette	6 mm
Reaction volume	180 - 550 µl
Reaction time	30 to 600 sec (Depending on the designated cycle time and number of reagents)
Reaction temperature	37 ± 0.2° C
<b>Optical System</b>	
Measurement	Photometry
Light source	Halogen Tungsten lamp
Wavelength	Total 9 filters (340, 405, 450, 510, 546, 578, 620, 670, 700 nm)
Absorbance range	0 - 3.0 Abs
Resolution	0.0001 Abs
<b>Calibration</b>	
Calibration points	K-Factor, Linear (one, two and multi point), Logit-log, Spline, Exponential, Polynomial (second, third and fourth order)
Auto re-run	Multipoint curves for up to 6 points execution by repeat run list or auto execution Auto execution according to abnormal marking or range over
<b>Data Storage</b>	
Test results:	Unlimited tests
Reaction curve:	Unlimited tests
Profiles:	12
	Within day as well as day-to-day X and X-R control diagram (L-J Graph)
<b>Quality Control</b>	
	Real time quality control based on Multi-rule method mean, SD, %CV, R is calculated for all parameters for sample replicates
<b>Working Conditions</b>	
Power supply	100-240 VAC, 50/60 Hz (Max. Power 250 W)
Temperature	15°C - 30°C variation during operation
Humidity	40% - 80% free from water dew formation
<b>Operation System Input and Output</b>	
Input	Windows XP, Windows 2007, Window 8, Windows 10 or Windows 10 IOT
Output	RS 232 interface/computer Multi Format Printout
<b>Dimensions</b>	736 mm (L) x 553 mm (W) x 432 mm (H)
<b>Weight</b>	Approx. 46 kgs



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It Works, You relax...

Merilyzer  
AutoQuant 200i™



CE IVD

ri More to Life

# Merilyzer | AutoQuant 200i™

Meril Diagnostics endeavor to manufacture most of their products in-house witnesses the launch of AutoQuant 200i™ bench top fully automated analyzer with a throughput of 200 tests per hour. Its unique compact model with inbuilt laundry and cooling facility for Reagents makes it ideal for a medium size laboratory for routine tests, and as a backup for bigger laboratories. Its unique software and feature of user defined reflex action makes it user friendly Fully Auto Analyzer.

## Reagent & Sample Tray

- 45 refrigerated reagent positions & 45 sampling position
- Reagent & Sample positions are bar code enabled
- Detachable Reagent Tray
- Peltier based cooling system to maintain temperature between 8 to 12°C
- 20 ml Reagent bottles with dead volume of 750 µl
- Primary tubes size (12 mm x 75 mm) & samples cups can be used
- Continuous loading
- STAT/Controls/Calibrators can be placed at any position

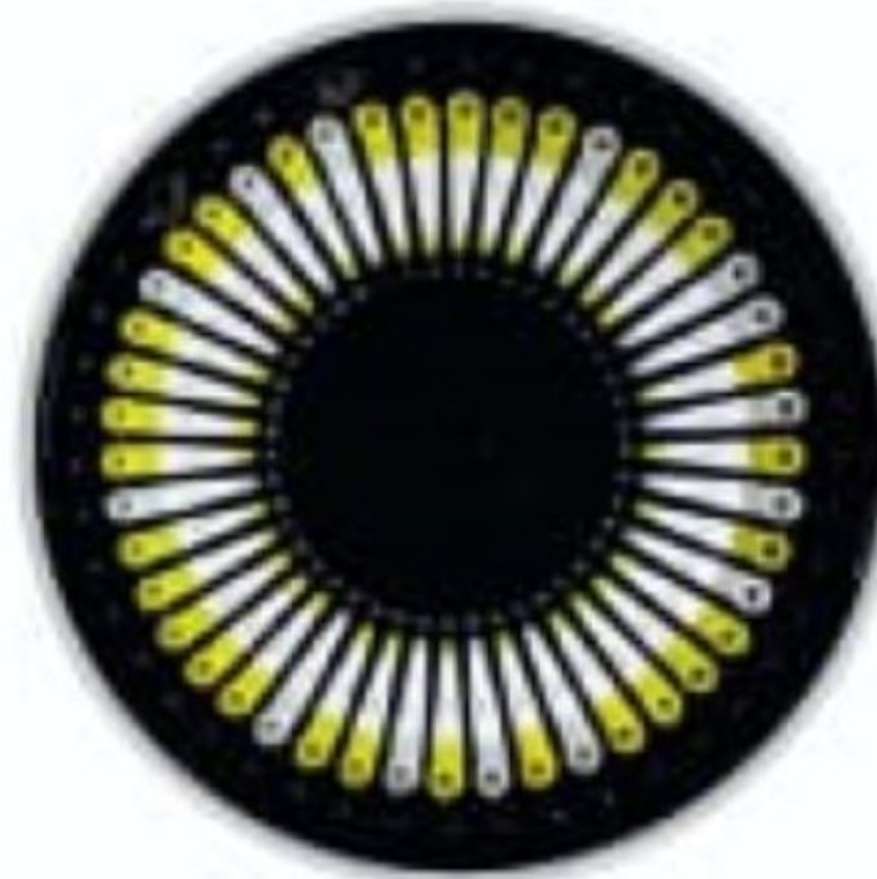


Figure. 1

## Sample, Reagent Probe & Stirrer

- Hydrophobic probes which prevents cross contamination
- Capacitive level detection
- Vertical and horizontal obstruction detection facility to prevent probe crash
- Long life maintenance free syringe
- Single micro coated stirrer



Figure. 2

## Reaction & Optical System Unit

- 60 discrete, dismountable, easily replaceable and reusable cuvettes with 6 mm optical path
- COP material which ensures high transmittance with long life
- 7-step on board washing
- Cuvettes carry over <1%
- Probe carry over <3%
- Continuous cuvette blank checking, if blank exceeds the limit, cuvette is skipped
- Low water consumption of 5 to 6 litres / hour
- Halogen Tungsten lamp, with fibre optics
- Silicon photo-diode detector
- Photometric system of static filters with total 9 filters (340, 405, 450, 510, 546, 578, 620, 670, 700 nm)



Figure. 3

## It Works, You relax...



- **Accuracy:**  
On board cooling and On board laundry system  
Option of three different wash for forbidden pairs to minimize the carry over
- **High Precision:**  
Meril cutting edge technology for volume measurement by block piston maintenance free syring
- **Convenience:**  
Intuitive software of reflex testing and dedicated system packs
- **Flexibility:**  
Processing of emergency samples can be dealt on priority with STAT function
- **Ease of operation:**  
User interactive software

## Cooling System

- Water based cooling system for peltier
- Prolongs the life of peltier
- Reduces Internal heat dissipation helps reducing probable electronics failure
- Ensures high onboard stability of Reagents
- Maintain 8° - 12°C temperature



Figure. 4

## Software

- Online curve for all types of chemistries
- Pre-dilution & Auto-dilution facility
- Auto rerun - Auto execution based on reagent linearity or substrate depletion
  - User defined reflex testing.
  - User defined carry over pair
- Real Time online monitoring for running status of
  - Sample tray
  - Reagent tray
  - Reaction cuvette
  - Reagent Inventory



Figure. 5