

More to Life

Where research becomes the basis of discovering newer ways of alleviating human suffering and empowering an individual with good health.

Meril

Diagnostics



Merilyzer | AutoQuant 200i™



Meril Diagnostics

Emerging from a lineage of successful business enterprise, Meril Diagnostics is an in-vitro diagnostic arm of the multi million dollar MNC group .

Meril Diagnostic's core objective is to design, manufacture and distribute, clinically relevant, state of the art and best in class analyzers and reagents to alleviate human suffering and improve Quality of Life.



Corporate Office

Meril's corporate office sits proud ensconced within the serene hill sides of Chala town; located 150 kms north of Mumbai at Vapi

Meril Park

300,000 sq feet state of the art manufacturing, research and development facility located at Vapi for Diagnostics, Orthopaedics, Endo-surgery equipments and Cardiovascular, comprising a team of designers, engineers, chemists, microbiologists and R&D scientists.



Meril Training Academy

While innovations and advancements play a vital role in contributing towards better health of the society, a larger role also lies in educating and imparting training to pathologists, clinicians, technicians and other members of the medical fraternity.

Meril's Training Academy is a world class, first of its kind institution that offers both practicing professionals and students hands on training and knowledge.

Modernistic, contemporary academy with Hands on Trainings, Simulators, Live Case Learning, Distance learning, Hard-ware play rooms, Libraries, Cadaver and Animal models.

Fully-automated Clinical Chemistry Analyzer

- Throughput: Up to 200 Tests / hour for 2 reagents
Up to 240 Tests / hour for single reagent
- Analysis Method : End Point, Fixed Time (2-point), Kinetic Rate-A, Kinetic Rate-B
- Assay Modes : Colorimetric, Turbidimetry, Single and Double reagent, Multi standard, Mono and Bi – Chromatic
- Random Access with STAT function
- Measurement Principle : Photometry
- Sample Positions: Maximum 30 positions
- 30 onboard cooled reagent positions maintained by water cooled Peltier system
- Auto positioning for bar coded reagents
- 60 dismountable, easily replaceable and reusable cuvettes
- Total 9 filters (340, 405, 450, 510, 546, 578, 620, 660, 700)
- Calibration Points: K-Factor, Linear, Logit-log 4P, Logit-log 5P, Spline, Exponential, Polynomial Multipoint curves for up to 6 points
- User defined calibration validation
- User defined reflex testing
- User defined forbidden pairs with 3 different types of wash
- Special wash for cuvettes possible
- Laundry System, 7-step automatic washing
- Low water consumption of 5 - 6 litres / hour
- Easy-to-use Windows based software (Windows XP / Windows 7 / Windows 8)



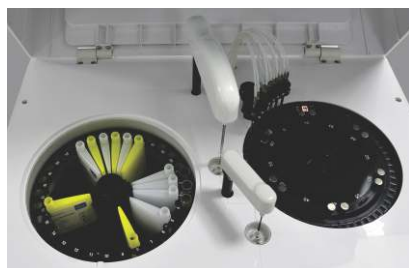
Merilyzer | AutoQuant 200i™

Innovative Features

AutoQuant 200i™ is a fully automated, random access, patient prioritized analyzer with throughput of up to 200 tests / hour for double reagent and up to 240 tests / hour for single reagent, making it ideal for small to mid sized laboratory.

Sample and Reagent System – An Art of Simplicity

AutoQuant 200i™ is provided with 30 sampling positions with possibility of using bar codes sample tubes. Continuous loading possible with STAT samples can be placed at any free positions. 30 cooled reagent positions available with auto-positioning of MERIL reagents.



Enhanced Lab Efficiency

AutoQuant 200i™ is equipped with sample and reagent probe with liquid level sensor. Analyzer is programmed with internal and external probe washing. Analyzer is provided with long life pipetting system with plunger, driven by stepper motor and is equipped with vertical and horizontal obstruction detection facility to prevent probe crash.

Reaction Disk Assembly

AutoQuant 200i™ is provided with 60 dismountable, easily replaceable and reusable cuvettes. Analyzer is equipped with laundry and 7-step automatic washing system, with low water consumption of 5 - 6 litres / hour.



Optical System

AutoQuant 200i™ uses Halogen Tungsten lamp, with fibre optics and silicon photo-diode detector. Photometric system of Static filters with total 9 filters (340, 405, 450, 510, 546, 578, 620, 660, 700)

Assay Modes

End Point, Fixed time (2-point), Kinetic Rate-A, Kinetic Rate-B.

Auto Re-run

AutoQuant 200i™ is programmed with auto execution according to abnormal or substrate depleted marking.

Perfect Quality Control Function

Real time quality control based on Multi-rule method. Within day as well as day-to-day X and X-R control diagram (L-J Graphs). Mean, SD, %CV, R is calculated for all parameters for sample replicates.



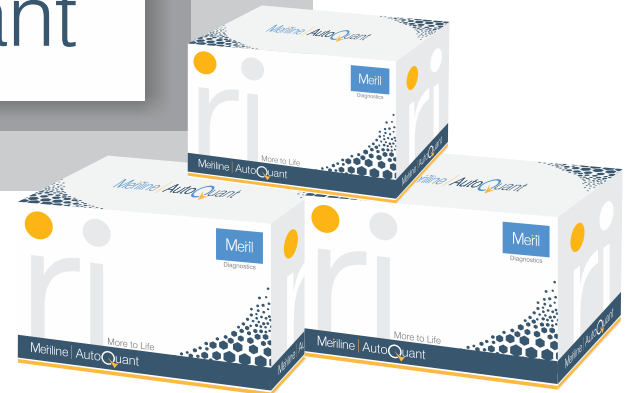
Data Storage

Test results: Unlimited
Reaction curve: Unlimited
Profiles: 20 per sample type
Data search provided as patient wise, Test wise, Date wise, Doctor/Hospital wise etc.

Technical Specifications

Throughput	Double Reagent : 200 Tests / hour Single Reagent : 240 Tests / hour	Calibration	K-Factor, Linear (one, two and multi point), Logit-log, Spline, Exponential, Polynomial (second, third and fourth order) Multipoint curves for up to 6 points Execution by repeat run list or auto execution Auto execution according to abnormal marking or range over
System Functions		Data Storage	Test results: 1,000,000 Reaction curve: 40,000 tests Profiles: 20 per sample type Within day as well as day –to-day X and X-R control diagram (L-J Graph) Real time quality control based on Multi-rule method mean, SD, %CV, R is calculated for all parameters for sample replicates
Analysis Method	End Point, Fixed Time (2-point), Kinetic Rate-A, Kinetic Rate-B	Calibration Points	
Assay Modes	Colorimetry, Turbidimetry, Single and Double reagent, Multi standard, Mono and Bi – Chromatic	Auto re-run	
Sample / Reagent handling		Quality Control	
Sample Volume	2 - 70 μ l 0.12 μ l step		
Sample Dilution	Dilution ratio of 2 to 40		
Reagent Position	30 for R1 and R2		
Reagent Volume	180 - 550 μ l		
Reaction System		Working Conditions	
Reaction Cuvette	60 (Dismountable)	Power Supply	110/220 VAC, 50/60 Hz (Max. Power 250 W)
Cuvette Washing	On board laundry with 7 step washing system	Temperature	10°C - 30°C
Water Consumption	5 - 6 litres / hour	Humidity	40% - 80% free from water dew formation
Optical length of cuvette	5 mm		
Reaction Volume	180 - 550 μ l	Operation System	Windows XP or Windows 2007 or Winfix
Reaction Time	300 to 600 sec (Depending on the designated cycle time and number of reagents)	Input and Output	RS 232 interface/computer Multi Format Printout
Reaction Temperature	37 + 0.2 C	Dimensions	550 mm (W) x 420 mm (D) x 380 mm (H)
Optical System		Weight	Approx. 50 kgs
Measurement	Phoometry		
Light Source	Halogen Tungsten lamp		
Wavelength	Total 9 filters (340, 405, 450, 510, 546, 578, 620, 660, 700)		
Absorbance Range	0 - 3.0 Abs		
Resolution	0.0001 Abs		

Meriline | AutoQuant™



AutoQuant (Fluid Stable Reagents)

CODE	ANALYTE	PACK SIZE
ALBAQ1-01	Albumin	6 x 20
AMYAQ1-01	Amylase	4 x 20
ALPAQ1-01	Alkaline Phosphatase	4 x 15
GPTAQ1-01	ALAT (GPT)	6 x 20 / 6 x 5
GOTAQ1-01	ASAT (GOT)	6 x 20 / 6 x 5
BITAQ1-01	Bilirubin Total	5 x 15 / 5 x 5
BIDAQ1-01	Bilirubin Direct	5 x 15 / 5 x 5
CAAAQ1-01	Calcium A	4 x 20
CREAQ1-02	Creatinine	5 x 15 / 5 x 15
CKNAQ1-01	Creatine Kinase NAC	2 x 20 / 2 x 5
CKMAQ1-01	Creatine Kinase MB	2 x 20 / 2 x 5
CHOAQ1-01	Cholesterol	6 x 20
CO3AQ2-01	Compliment 3	2 x 20 / 2 x 5
CO4AQ2-01	Compliment 4	2 x 20 / 2 x 5
HDLAQ1-01	HDL Cholesterol (Direct)	2 x 18 / 2 x 6
LDLAQ1-01	LDL Cholesterol (Direct)	1 x 18 / 1 x 6
CHDAQ1-01	Chloride	4 x 20
GGTAQ1-01	γ-Glutamyl Transferase	1 x 20 / 1 x 5
GLUAQ1-01	Glucose	10 x 20
LDHAQ1-01	Lactate Dehydrogenase	1 x 20 / 1 x 5
MAGAQ1-01	Magnesium	4 x 20
PHOAQ1-01	Phosphorous	4 x 20
TPRAQ1-01	Total Protein	6 x 15
MTPAQ1-01	Microprotein	4 x 20
TRGAQ1-01	Triglyceride	6 x 20
URCAQ1-01	Uric Acid	4 x 15
UREAQ1-01	Urea	6 x 20 / 6 x 5
ASOAQ2-01	Anti Streptolysin-O (ASO)	2 x 20 / 2 x 5
APAAQ2-01	Apolipoprotein A1 (APO A1)	2 x 20 / 2 x 5
APBAQ2-01	Apolipoprotein B (APO B)	2 x 20 / 2 x 5
HSCAQ2-01	CRP Ultra	2 x 20 / 2 x 5
MALAQ2-01	Micro Albumin (μ-ALB)	2 x 20 / 2 x 5
RHFAQ2-01	Rheumatoid Factor (RF)	2 x 20 / 2 x 5
LPAAQ2-01	Lipoprotein(a)	2 x 20 / 2 x 5
CRPAQ2-01	C-Reactive Protein (CRP)	2 x 20 / 2 x 5
LIPAQ2-01	Lipase	1 x 20 / 1 x 12

AutoQuant Controls, Calibrators and Cleaning Fluid

CODE	ANALYTE	PACK SIZE
CRNCNC - 01	BIONORM	1 x 5 ml
CRPCNC - 01	BIOPATH	1 x 5 ml
CALCNC - 01	BIOCAL	4 x 3 ml
CLZAQT - 01	AUTOQUANT CLEANZER	10 x 100 ml

Meril

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Meril Diagnostics Pvt. Ltd.

D1 - D3, Second Floor, Meril Park,
Survey No. 135/2/B & 174/2,
Muktanand Marg, Chala,
Vapi - 396191, India.

T +91 22 30732400

F +91 22 39350777

Meril GmbH.

Bornheimer Strasse 135-137,
D-53119 Bonn. Germany.

T +49 228 7100 4000

F +49 228 7100 4001

Meril South America

Doc Med LTDA
Al. dos Tupiniquins,
1079 – Cep: 04077-003 – Moema
Sao Paulo. Brazil.

T (F) +55 11 9738 04868

Meril Tibbi Cihazlar İmalat ve Ticaret A.Ş.

Mimar Sinan Mah. Cavusbasi Cad.
Ozge Sok. 5/6 Cekmekoy 34782
İstanbul / Turkey

T +90 53 2272 5172

Email: diagnostics@merillife.com

Website: www.merillife.com

Customer Care: 1-800-266-3745 (Toll Free)

