

AutoQuant 200 Excelus[®]

Fully Automated Biochemistry Analyzer



Research Empowered Automation

#TESTING ZAROORI HAI

Technical Specifications

Throughput	200 Tests / hour
ISE (Optional)	300 test / hour
System Functions	End Point, Fixed Time (2-point), Kinetic Rate-A, Kinetic Rate-B, Sample/ Reagent blanking, ISE Colorimetry, Turbidimetry, Single and Double reagent, Multi Standard, Mono and Bi - Chromatic
Analysis method	End Point, Fixed Time (2-point), Kinetic Rate-A, Kinetic Rate-B, Sample/ Reagent blanking, ISE Colorimetry, Turbidimetry, Single and Double reagent, Multi Standard, Mono and Bi - Chromatic
Assay modes	End Point, Fixed Time (2-point), Kinetic Rate-A, Kinetic Rate-B, Sample/ Reagent blanking, ISE Colorimetry, Turbidimetry, Single and Double reagent, Multi Standard, Mono and Bi - Chromatic
Sample Types	End Point, Fixed Time (2-point), Kinetic Rate-A, Kinetic Rate-B, Sample/ Reagent blanking, ISE Colorimetry, Turbidimetry, Single and Double reagent, Multi Standard, Mono and Bi - Chromatic
Sample / Reagent processing	
Sample position	45
Sample volume	2 - 50 μ l (Adjustable in 0.1 μ l step)
Sample dilution	2 to 40 times
Reagent position	45 for R1 and R2
Reagent volume	Reagent 1: 180-350 μ l (Adjustable in 1 μ l step) Reagent 2: 0 or 10-350 μ l (Adjustable in 1 μ l step)
Mixing	Mixing by paddle or by aspirate-dispense of reaction volume
Reaction System	
Reaction cuvette	60 (Reusable)
Cuvette washing	On board laundry with 7 step washing system
Water consumption	6 litres / hour
Optical length of cuvette	6.5 mm
Reaction volume	180 - 550 μ l
Reaction time	For one Reagent chemistry incubation time is & 30-600sec and for 2 Reagent Chemistry it is 30-300sec for each reagent
Reaction temperature	37°C \pm 0.2° C
Optical System	
Measurement principle	Photometry
Light source	Tungsten halogen lamp (12V 20 W) cooled with air option for auto on/ off of lamp
Wavelength	Total 9 filters (340, 405, 450, 510, 546, 578, 620, 670, 700 nm)
Detector	Silicon photodiode
Absorbance range	0 - 3.0 Abs
Resolution	0.0001 Abs
Calibration	K-Factor, Linear (one, two and multi point), Logit-log, Spline, Exponential, Polynomial (second, third and fourth order)
Calibration points	Multipoint curves for up to 6 points execution by repeat run list or auto execution
Auto re-run	Auto execution according to abnormal marking or range over
Data Storage	Test results: Unlimited tests Reaction curve: Unlimited tests Profiles: 20 per sample type Within day as well as day-to-day X and X-R control diagram (L-J Graph)
Quality Control	Real time quality control based on Multi-rule method mean, SD, %CV, R is calculated for all parameters for sample replicates. Daily and monthly batch QC with data archiving.
Working Conditions	110/220 VAC, 50/60 Hz (Max. Power 250 W) Temperature 10° C - 30° C Humidity 40% - 80% free from water dew formation
Operation System	Windows XP, Windows 7, Windows 8, Windows 10 or Winfix
Input and Output	RS 232 interface/computer Input Multiformat printout
Dimensions	736mm (L) x 553mm (W) x 432mm (H)
Weight	Approx. 55 kgs

Accuracy

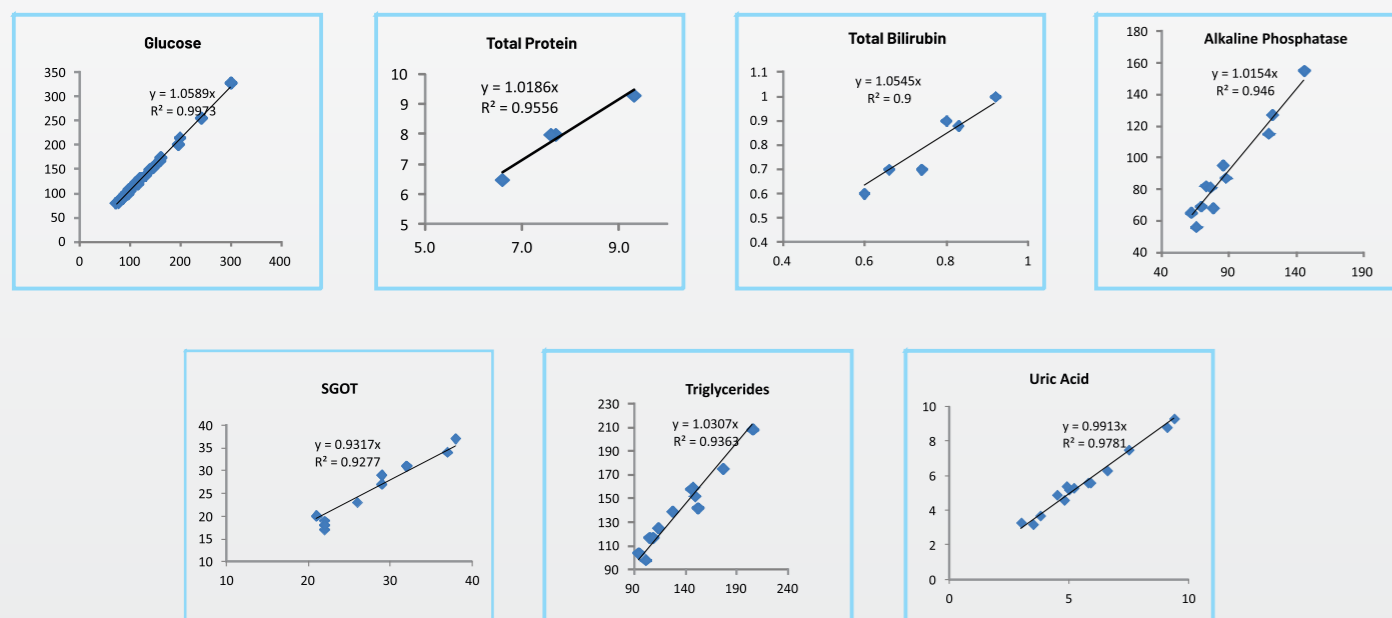
High Precision

Flexibility

Convenience

Ease of operation

Research Empowered Automation



Correlation data representations of validation study performed for **AutoQuant 200 Excelus** in comparison with an available high-end chemistry equipment. (Detailed study data can be furnished on request)



Meril Diagnostics Pvt. Ltd.

D1-D3, Second Floor, Meril Park, Muktanand Marg, Chala, Vapi - 396 191, Gujarat, India.
T: +91 260 240 8000 F: +91 260 240 8025 E: diagnostics@merillife.com



The best upgrade solution for stand alone laboratories and hospital-based laboratories with a growing workload of 50 + samples per day offering a throughput of 200 tests per hour

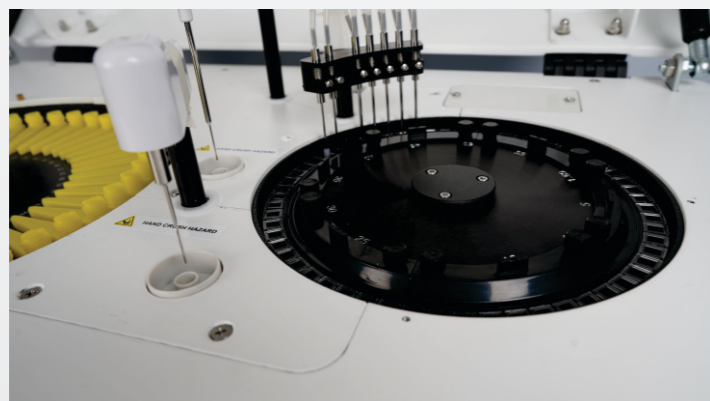
- Save washing cycles every day
- The Excelus comes with 60 onboard cuvettes.
- This helps to perform more tests per batch and optimizes the number of batches for the user
Optimized test batches = reduced washing cycles



- Excelus users optimize their test batches with the capacity to perform **More Samples in Every Run**

- The new upgraded Excelus gives you the privilege of performing continuous sample loading with the highest capacity of **45 Reagents Positions & 45 Sample Positions.**

- More Samples per Run - Perfect Walkaway system - Faster Lab Operations
Complete your routine laboratory chores faster



Get Excelus...

Reduce Calibration Frequency & Avoid Result Variations

- Excelus uses 510nm wavelength for a few common biochemistry assays.
- 510nm has less decay compared to other commonly used wavelengths.
- This results in reduced calibration frequency and reduces result variations.



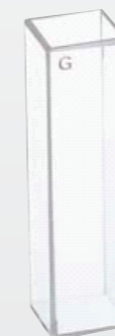
Avoid the risk of carryover

- Excelus offers 7 step auto cuvette wash station which reduces the risk of carryover



Excelus users enjoy great savings with Independent replaceable cuvettes

- No high recurring cost of maintaining permanent cuvettes.
- Cuvettes can be replaced independently whenever necessary.
- Lowest detergent consumption



AutoQuant System Reagents

Mat Code	Material Description	Pack Size
ALBAQ1-01	ALBUMIN	6 x 20
ALPAQ1-01	ALKALINE PHOSPHATASE	4 x 15
AMYAQ1-01	AMYLASE	4 x 20
GOTAQ1-01	ASAT(GOT)	6 x 20 / 6 x 5
GPTAQ1-01	ALAT (GPT)	6 x 20 / 6 x 5
BIDAQ1-01	BILIRUBIN DIRECT	5 x 15 / 5 x 5
BITAQ1-01	BILIRUBIN TOTAL	5 x 15 / 5 x 5
CAAAQ1-01	CALCIUM (A)	4 x 20
CHDAQ1-01	CHLORIDE	4 x 20
CHOAQ1-01	CHOLESTEROL	6 x 20
CKMAQ1-01	CREATINE KINASE MB	2 x 20 / 2 x 5
CKNAQ1-01	CREATINE KINASE NAC	2 x 20 / 2 x 5
CREAQ1-02	CREATININE	5 x 15 / 5 x 15
CRPAQ2-01	CRP	2 x 20 / 2 x 5
ECRAQ1-01	ENZYMATIC CREATININE	4 x 18 / 4 x 6
GGTAQ1-01	g-GLUTAMYL TRANSFERASE	1 x 20 / 1 x 5
GLUAQ1-01	GLUCOSE	10 x 20
HDLAQ1-01	HDL CHOLESTEROL (Direct)	2 x 18 / 2 x 6
LDHAQ1-01	LACTATEDEHYDROGENASE	1 x 20 / 1 x 5
LDLAQ1-01	LDL CHOLESTEROL (Direct)	1 x 18 / 1 x 6
LIPAQ2-01	LIPASE	1 x 20 / 1 x 12
MAGAQ1-01	MAGNESIUM	4 x 20
MALAQ2-01	MICRO ALBUMIN	2 x 20 / 2 x 5
MTPAQ1-01	MICROPROTEIN	4 x 20
PHOAQ1-01	PHOSPHORUS	4 x 20
TPRAQ1-01	TOTAL PROTEIN	6 x 15
TRGAQ1-01	TRIGLYCERIDE	6 x 20
UREAQ1-01	UREA	6 x 20 / 6 x 5
URCAQ1-01	URIC ACID	4 x 15
HBAAQ2-01	HbA1c	2x15 / 2x5.5/1x75/4x1 ml
ASOAQ2-01	ASO	2 x 20 / 2 x 5 / 1 x 1ml
CRPAQ2-02	CRP	2 x 20 / 2 x 5 / 1 x 1ml
RHFAQ2-01	RF	2 x 20 / 2 x 5 / 1 x 1ml
DDMAQ1-01	D-DIMER	2 x 15 / 2 x 5 / 1 x 1ml
FRTAQ1-01	FERRITIN	2 x 15 / 2 x 5 / 1 x 1ml