



# Analytica 705



## Semi-Auto Biochemistry Analyzer with color graphical display

- Ideal companion of clinical laboratories and hospitals
- High accuracy and reliability of test results
- User-friendly interface

Analytica 705 is a compact, reliable, high performance semi-automated biochemistry analyzer a symbol of superior technology capable to perform tests on whole blood, serum, plasma, CSF or urine samples to determine routine clinical chemistry, electrolyte, immuno turbidimetric assay to deliver accurate and quality results with low maintenance.

## • Clinical Chemistry

**Autoimmune** (Turbidimetric) – CRP, IgA, IgG

**Anaemia** – Hemoglobin, Fe, TIBC, Transferrin, GDH

**Basic Metabolic profile** – Amylase, Albumin, Glucose, Globulin, HbA1c, HBD, Lipase, LDH

**Cardiac** – CK-MB, CK-NAC, CRP, Cholesterol, LDH, Lipoprotein-a, Triglyceride

**Diabetes** – Glucose, Glucose Hexokinase, HbA1c, Microalbumin, Cholesterol, Total protein

**Electrolytes** – Ammonia, Bicarbonate, Calcium, Chloride, Iron, Magnesium, Phosphorous, Potassium, Sodium, Zinc

**Inflammation** (Turbidimetric) – ASO, CRP

**Lipid Profile** – Apolipoprotein A, Apolipoprotein B, Cholesterol, HDL-Cholesterol, Lipoprotein-a, LDL-Cholesterol, Lipase, Triglyceride, VLDL

**Liver profile** – Aldolase, Albumin, Alkaline Phosphatase, Acid Phosphatase, Bilirubin, Cholinesterase, GGT, Micro albumin, SGOT, SGPT

**Kidney profile** – Blood Urea Nitrogen, Creatinine, Globulin, Micro protein, Total Protein, Urea, Uric acid, Phosphorous, Potassium, Sodium, Urinary protein

## • Veterinary

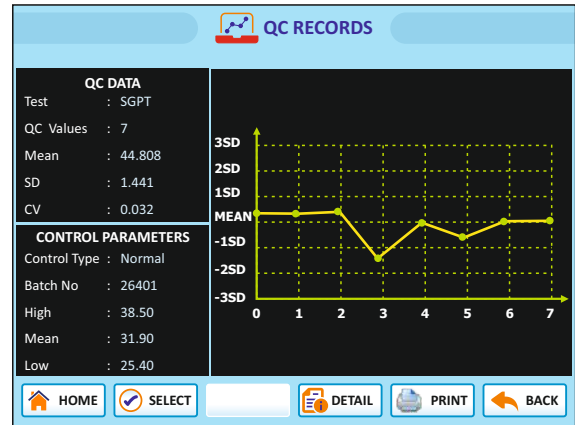
Albumin, Alkaline Phosphatase, Amylase, Ammonia, Bilirubin, Calcium, Chloride, Cholesterol, Creatinine, Cholinesterase, CKNAC, Glucose, GGT, Glutamate dehydrogenase (GDH), HDL-Cholesterol, Hemoglobin, Iron, Lipase, Lactate, Magnesium, Micro albumin, Micro protein, Phosphorous, Potassium, Sodium, SGOT, SGPT, Total Protein, Triglyceride, Urea, Uric acid

## • Food, Water and Wine Industry

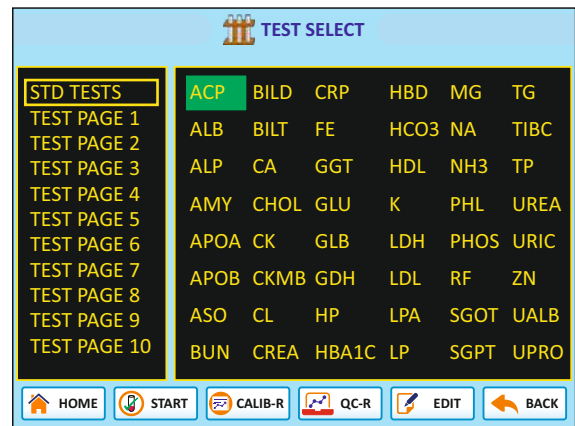
Acetic acid, Calcium, Copper, Chloride, Ethanol, Glucose, Glycerol, Iron, Lactic acid, Sodium, Potassium, Zinc



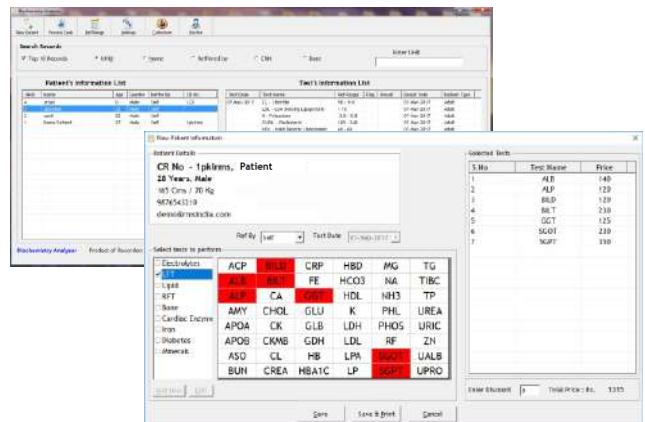
Main Screen



Quality Control Record



Test Selection



LIS Software (Telemedicine Port) optional

# Analytica 705 - Technical Specifications

## OPTICAL SYSTEM

Flow Cell	30 $\mu$ l quartz
Light Source	UV Quartz halogen lamp 6V/10W
Temperature	25°C, 30°C, 37°C and room temperature
Temperature Control	By peltier element
Photodetector	UV enhanced silicon photodiode
Cuvette option	Triple cuvette system, 10mm square/Round cuvette with square adaptor (optional)
Filter	7 interference filters (340, 405, 505, 546, 578, 620 and 670 nm) with 3 optional positions
Filter Selection	Filter wheel, through stepper motor

## MEASURING SYSTEM

Reaction Volume	350-5000 $\mu$ l
Aspiration	Peristaltic pump
Photometric Range	-0.1 to 3.0 Absorbance
Resolution	0.0001 Absorbance
Linearity	$\leq$ 1%
Blanking	Automatic zero setting
Calibration	Automatic against standard with auto storage of graph for all tests

### Measurement Methods

- ◆ End point/one point reaction with or without reagent blank and sample blank
- ◆ Fixed time/two point kinetics with or without reagent blank and sample blank (with 1 sec change)
- ◆ Kinetic test/multi point with or without calibration, factor and sample blank (with 1 sec change)
- ◆ Bichromatic with or without reagent blank and sample blank
- ◆ Multipoint Calibration of 10 multi-standards with curve fit formula
- ◆ Linear, Point-Point, Multi-Point, Logit-Log 4P, Logit-Log 5P, Polynomial, Parabola, Exponential 5P and Spline calibrations with error flags multi-standards
- ◆ Absorbance

## OPERATOR INTERFACE

Total Programmable Tests	248
Direct Test Keys	48

Quality Control	3 Controls per test with Levey Jenning graph
Display	640 x 480 pixel, Color graphical TFT (5.6")
Touch Screen	Optional
Printer	Graphical inbuilt thermal printer
Air Purge	After each sample
Keyboard	Qwerty alphanumeric membrane keyboard (80 keys) for direct function entries
Communication Interface	RS 232(optional), USB port (optional)
Memory	- 1,00,000 test results - 22320 QC results and graph - Calibration curve and results for all tests - Reagent blank for all tests
Result recall	Test name, Patient name, Sample ID, Date
LIS Software	Available (optional)
Telemedicine Port	Through WiFi (optional)

## PHYSICAL

Dimension	420(W) x 310(D) x 150 (H) mm
Power Supply	$\sim$ 110-250V, 50 $\pm$ 10% Hz
Weight	8 Kgs approx.

## ENVIRONMENTAL CONDITIONS


Storage condition	
Temperature	0 - 40°C
Non-condensing humidity	0 - 80 %
Operating condition	
Temperature	10° - 40°C

## HARDWARE & ACCESSORIES

Component	Quantity
Power cord	01
Fuse	02
Thermal printer roll	02
User Manual	01

Since R&D is a continuous process, to make changes in product features, specifications, aesthetics and/or to discontinue the same at any time without notice or obligation



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