



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

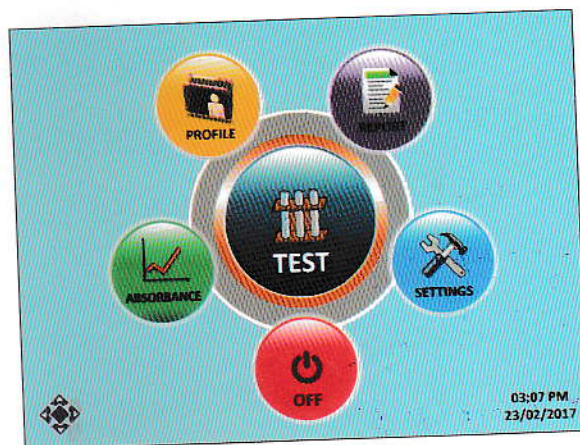
Kidney profile – Blood Urea Nitrogen, Creatinine, Globulin, Micro protein, Total Protein, Urea, Uric acid, Phosphorous, Potassium, Sodium, Urinary protein

• 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

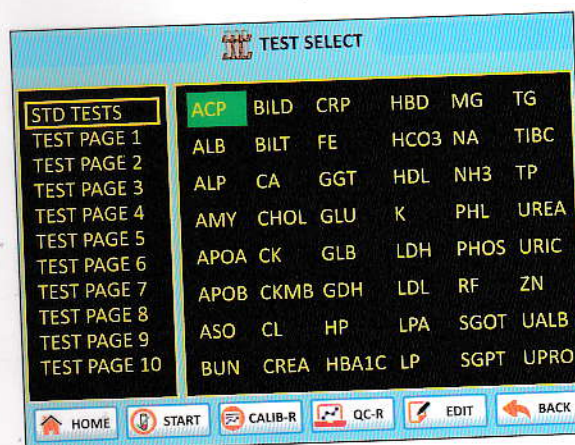
Acetic acid, Calcium, Copper, Chloride, Ethanol, Glucose, Glycerol, Iron, Lactic acid, Sodium, Potassium, Zinc



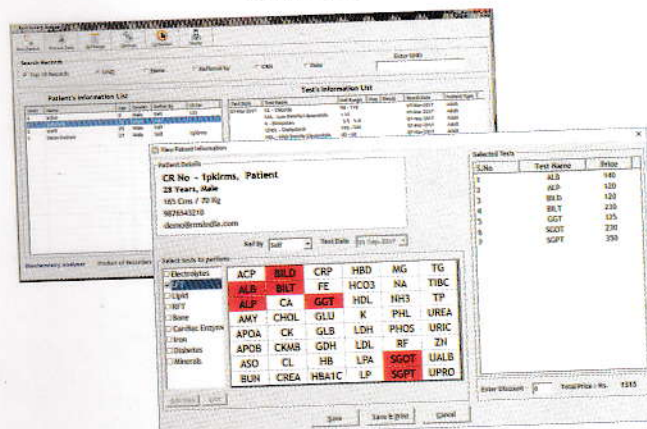
Main Screen



Quality Control Record



Test Selection



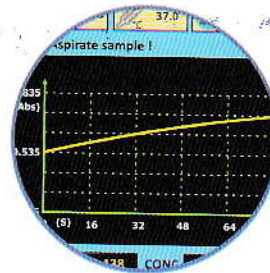
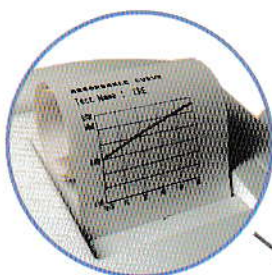
LIS Software (Telemedicine Port) optional

Easy and smooth operator-friendly user interface

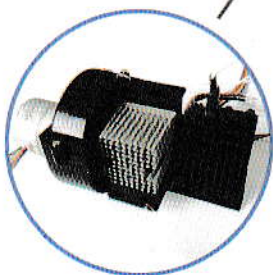
- USB Port for direct attachment of external printer (optional)
- RS 232 port (optional)
- LAN Connectivity (optional)
- WiFi connectivity (optional)

- Realtime absorbance curve, Realtime clock, Realtime temperature display on screen
- QC program for 3 controls per tests with westgard rules, Levey-Jennings chart
- Calibration graph storage for all tests
- Facility to create profiles of various tests

High resolution graphic thermal printer for multiform reports



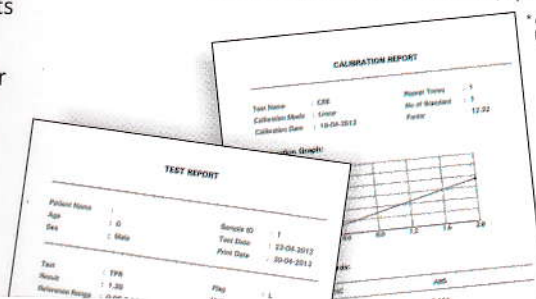
Software calibrated peristaltic pump for less reagent consumption



- Powerful optical assembly for precise results
- Use of Japanese photodiode and European interference filters

- 48 direct keys to access tests directly from keyboard
- Lamp saving mode indicator on keyboard
- Direct key to Rinse flow cell at any stage of test

- USB based PCL compatible DeskJet and Laser printers (optional)



* only for selected hp printers

ANALYTICA 705 - Technical Specifications

OPTICAL SYSTEM

Flow Cell	30 μ l quartz
Light Source	Quartz Halogen lamp 6V/10W
Temperature	25°C, 30°C, 37°C, 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 & 670nm) with 3 optional positions
Filter Selection	Filter wheel; through stepper motor

MEASURING SYSTEM

Reaction Volume	350-5000 μ l
Aspiration	Peristaltic pump
Photometric Range	-0.1 to 3.0 O.D.
Resolution	0.0001 Absorbance (in calculation) 0.001 Absorbance (in display)
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
- ◆ Kinetic test/multi point using linearity check with or without reagent blank and sample blank
- ◆ Bichromatic with or without reagent blank and sample blank
- ◆ Multipoint Calibration (Non Linear) of 10 multi-standards with curve fit formula
- ◆ 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 (5.7")
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 - 3 types QC results and graph for all tests - 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	~ 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

Certified ISO 9001:2015, EN ISO 13485:2016 company

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