UNICORN 480

Fully Automatic Clinical Chemistry Analyzer

Technical Specifications

General Information

Machine type Random access, open reagent & Barcoded reagent (Optional) Constant 400 tests/Hour (Single and double Reagent) Test Speed

Test Principle Colorimetric Method, Turbimetry

Test Method 1 Point End, 2 Point End, Fixed Time, Kinetics

Calibration Linear and Non Linear

Sample Unit

Sample Tray

Sample Volume 2-30 µl, step by 0.1 µl

Sample Tube Micro Cup, Test Tube, Blood Collection Tube can be used.

(\$12 - 13) mm * (25 - 100) mm

Sample Probe Liquid Level Detection, Collision Protection

Sample Barcode Optional

Reagent Unit

Reagent Tray 90 Reagent Positions, Non-Stop Reagent Cooling System at

Optional Open and Reagent Barcode system.,

Reagent Volume 20 - 300 μl, Step by 0.1 μl

Reagent Probe Liquid Level Detection, Collision Protection

Reaction Unit

Reaction Tray 90 Reaction Cuvettes, Reusable amorphous cuvettes,

Accurate Transmittance, Stable Reaction Temperature of 37 C.

Reaction Volume

Reaction Time 10 Minutes

Mixing Unit

Paddle type mixing, Effectively prevents carry over

Optical System

Light Source Halogen Lamp

340 nm, 405 nm, 450 nm, 505 nm, 546 nm,578 nm, 630 nm, Wavelength

700 nm (4 additional filters available).

Absorbance

Range

Exclusively Marketed in India by:

VECTOR BIOTEK PVT. LTD.

425, NEW GIDC, KABILPORE, NAVSARI - 396 424. (GUJ.) INDIA Toll free:1800-270-1027 | Tel : +91-93757 94103 | Fax: +91-2637-265105 E-mail: service@beaconindia.com | Web: www.vectorbiotekindia.com CIN No. U33112GJ2002PTC040978

Resolutions 0.0001 Abs

Absorbance 0.5+0.025, 1.0+0.07 Accuracy

Absorbance Stability €0.01 Absorbance €1.5%

Operating System

Operating Windows XP, Windows 7, Windows 8, Windows 10 System

Processing Features

Repeatability

Automatic Calibration, Performs Test with combination, Effective and easy reagent management, Serum Index Real time process detection, Substrate Depletion for Kinetic Blank Deduction, Dirty Cuvette Detection, Customizable Report Print, Report Statistics, QC files and ranges with L-J chart, STAT Function, Available with Ready to use system packs, QC Fail Auto warning, Pre and Post Dilution with volume Adjustment, Sample Monitoring, Lamp Monitoring, Reaction

Cuvettes Monitoring, Temperature Indicator, Inbuilt Reservoir.

Interface Pattern TCP/IP network interface

Report Printing

6 Formats available, Support Customized format

Working Conditions

1100 mm(L) X 765 mm(W) x 1150 mm(H) Dimention

Power Supply AC 230 V, 50 Hz, 1000VA

The Distance between the power socket and the instrument

Should be less than 2.5 meters.

Earthing ≤ 5 V

UPS Online 2 KVA UPS with Isolated transformer

Water 15 L/Hour (Maximum)

Consumption Inbuilt reservoir available for emergency.

Net Weight 200 kgs Sound Level

*Product specifications are subject to change without prior notice.

VECTOR

"Thínk Bíochemístry! Thínk Vector..."



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TOLL FREE 1800-270-1027

www.vectorbiotekindia.com

UNICORN 480

Fully Automatic Clinical Chemistry Analyzer

- Constant 400 Tests/Hour with Single or Double Reagent.
- 90 Reagent Positions, Ready to use system packs available.
- Automatic liquid level sensing, anti-collision protection.
- Integrated full closed optical system, multi wavelength simultaneous detection.
- New Amorphous optical plastics reaction cups, perfect transmittance.
- Maintenance free semiconductor based solid state refrigeration.
- Friendly Surface and Easy to use Operation.



Smart Sampling Probe

- Mirror polished Probe, External and Internal washing system.
- Liquid level detection sensor, Accurate detection of Sample volume With sample clot detection.
- Collision protection and Auto adjustment of Probe.

Separate Probes for Reagents

 Probes are Mirror polished as well as separate reagent probes Minimize the Carry Over.

Independent Mixing Bar

• Excellent coating reducing carryover and Standard steps for homogeneous mixing.

High Precision Ceramic Piston

- Accurate dispensing with step of 0.1 μ l.
- Durable and quality ceramic piston ensures precise dispensing.

Userfriendly Reagent and Sample Tray

- 90 Reagent Position for R1 and R2 and 120 sample positions with accommodation of micro cup and test tubes.
- Reagent Tray Provides 24 Hours non stop refrigeration.
- Optional barcode System for sample.

Advanced Photometry and Reaction Tray

- 90 Reaction reusable Cuvettes with 2x6 Steps Auto washing system.
- Integrated and Fully closed optical system.
- Stable temperature of Reaction Tray of $37 \pm 1^{\circ}$ C.

Powerful Operating Software

- -Easy and Iconic menu -Real Time Inventory Management
- -Auto Dilution Facility -Warning alarm and log book
- -STAT Facility -QC L-J charts and calibration charts
- -Real Time Inventory -Customizable report prints, LAN Hl7
 Management facility
- -Real Time Reaction Curve -System pack Barcoding Facility
- -Making of Profile panel

 Dilution on Substrate Depletion for Kinetic Chemistries











