

PA - 2000

BioChemistry Analyzer



✉ bdm@promea.in

☎ 91549 38441

📍 Manufactured by:
Promea Therapeutics Pvt Ltd.
Plot No. M4, Medical Device Park, Sultanpur (V),
Patancheru (M), Sangareddy (Dist),
Telangana - 502319. www.promea.in


Compact


Reliable


Ergonomic


Economic



info@promea.in

www.promea.in



Product Intro:

Promea's PA 2000 is a fully automated, random access and discrete clinical chemistry analyzer that enhances productivity and turnaround time. PA 2000 comes with a throughput of 200 photometric tests per hour. PA 2000 is fast and an accurate chemistry analyzer that has been designed for mid-size laboratories. PA 2000 can comfortably handle the demands of an increased workload in a convenient and cost efficient way. It adds value to the laboratory and is an ideal choice for Mid-size labs. PA 2000 can be of your perfect choice if you're looking for an automated clinical chemistry analyzer with High precision & simple operation.

Sample:

- STAT Sampling
- Minimum sample Cup volume: 100µL
- Minimum Sample Volume: 2µL
- Sample cups, Hi cups and standard Round Test Tubes

Reaction Cuvettes:

- 60 cuvette positions.
- Individual Cuvette Replacement Provision.
- Reaction Cuvette Volume: 500µL
- Reaction Volume: Max 300µL and Min 180µL
- Intelligent Identification system to skip the faulty cuvette before test run
- Digitally Controlled reaction cuvette temperature at 37 °C

Reagent Carousel:

- Effective temperature control between 10 – 12°C
- Small and compact Reagent tray which can be stored in refrigerator

Reagent Positions:

- R1 & R2: 40 Position (combined)

Reagent Bottles:

Small Pack size bottles to avoid deterioration
R1: 18ml filling Volume
R2: 5ml Filling Volume
Dead Volume: 1ml

Sample Probe:

Vertical & Horizontal Crash detection

On-board Laundry:

7 Step Cuvette washing with warm water

Stirrer: Variable Speed stirrer

OS: Windows

Compatible with XP, Windows 8, 10 and 11



Technical Specifications

Item	Description
Throughput	200 test/hour
System type	Discreet, open/ closed (Optional)
Sample	Serum, Urine, Plasma, CSF, Other body fluids
Measurement principle	Photometric and HIAS (Homogeneous Immuno Assays)
Wavelengths	9: 340,405,450,510,546,578,620,660,690nm
Photometer Linearity	Up to ±3.0 Optical Density
Light source	Halogen lamp (12V 20 W)
Programmable parameters	50 photometric tests
Assay modes	End Point, Fixed time, Rate-A, MultiPoint Non Linear
Sample positions	40 for standard cups/ primary tubes/ STAT
Sample volume	2-50 µl (adjustable in 0.1 µl step)
STAT Sampling	STAT sampling at any position
Reagent positions	40 for combination of 18mL and 5mL bottle size
Reagent volume	10 – 300 µl (adjustable in 1 µl step)
Reagent cooling	15°C below ambient room temperature (approx 25°C)
Reaction volume	150µl to 300µl
Level sensing and safety mechanism	Vertical obstruction detection Inventory management by Capacitance based sensing
Reaction temperature	37 °C± 0.2 °C
Calibration	Max 6 calibrators per test with Calibrator auto-dilution
Calibration curves	K-Factor, Linear (one, two and multipoint), Logit-log (4P and 5P), Spline, Exponential and Polynomial
Quality control	Tri level Daily and Monthly L J Graphs with Multi QC Rules
Mixing type	By paddle mixer with variable speed (Low/ Middle/ High)
Sample dilution	Pre/Post dilution for >Linearity & Substrate Depletion
Sample and reagent tray	Rotating turn table with insulating cover
Sample/Reagent Identification	Positive Identification (Barcoding) for samples& reagents
Cuvette washing	7 stages Cuvette washing with drier chip
Data storage capacity	Test results: 1,000,000, Reaction curve: 40,000 tests
Graph monitoring	Online for Reaction and Calibration curve
Water consumption	NCCLS Type II, 4.5 liters/hour (approx)
Noise level	Less than 65 dB with cover closed
Weight	Approximately 48Kgs