BeneSphera™ Brand CLINICAL CHEMISTRY ANALYZER







BeneSphera[™] **Brand**

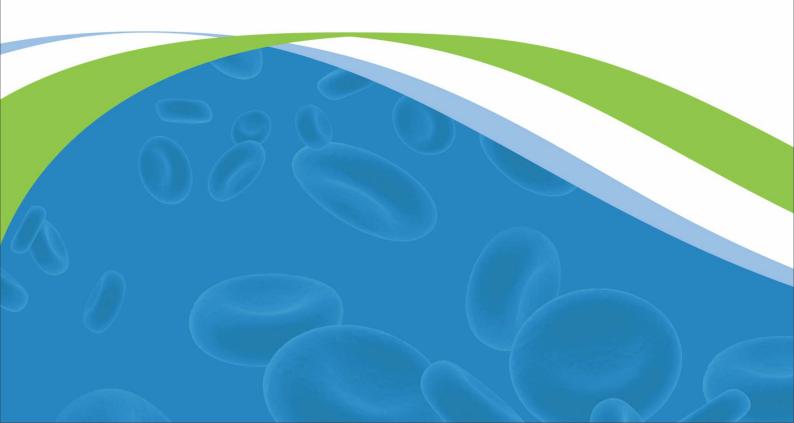
CLINICAL CHEMISTRY ANALYZER

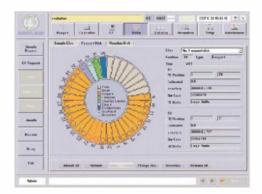
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Features and benefits

- Discrete, random access
- Fully automated analyzer
- Capable of running up to 100 tests per hour and up to 300 tests per hour with ISE (Na+/K+/Li/+Cl+)
- Up to 28 onboard chemistries
- 36 sample and reagent positions flexible for user convenience
- Refrigerated reagent compartment
- Automatic probe cleaning, liquid level detection, and collision protection
- Eight wavelengths: 340-670nm
- Automatic dilution for abnormal samples
- Bi-directional LIS interface

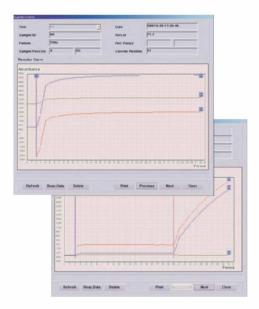






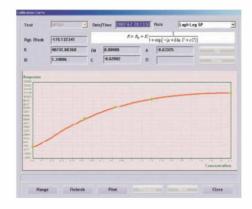
Dynamic and Real Time Display of Running Status

- Running status of reagent/sample tray and reaction tray
- Realtime monitoring of reagent residual volume
- Intelligent carry-over settings to adjust test sequence
- Automatic probe depth adjustments
- Realtime diagnosis of system working status



Original Reaction Data Record

- Real time monitoring of reaction
- Bichromatic testing to avoid interface
- Simultaneously displays primary and secondary wavelengths
- Detailed profile of alert messages



Optimum Calibration Curve

- Linear curve type: single-point linear, two-point linear and multipoint linear
- Nonlinear curve type: logistic-log 4P, logistic-Log 5P, exponential 5P, polynomial 5P and spline



Multi-functional Sample/Reagent Probe

- Collision protection
- Liquid level detection
- Internal and external probe washing
- Probe depth adjustment automatically
- Pre-heating of reagents



Excellent Reaction Tray

- Highly stable reaction temperature control at 37±0.1°C
- Spot photometry with high speed digital transmission system
- Contains 40 reusable reaction cuvettes
- Automatic eight position filter wheel
- Maintenance-free heater elements



Flexible Sample/Reagent Tray

- Optional external reagent/sample barcode reader
- 36 sample and reagent positions flexible for user convenience
- Up to 20/10 virtual sample/reagent trays can be programmed
- Primary tubes and various sample cups can be used, nonfixed positions for sample, control, calibrator of STAT
- 24-hour non-stop cooling with peltier elements



High Quality ISE Module (optional)

- Measurements of K+, Na+, Cl-, Li+
- Throughput: up to 200 tests per hour
- Six month shelf-life



High Performance Mixer Design

- Minimizes cross contamination
- Optimal homogenization in minimum time
- Thoroughly mixes after dispending of sample or second reagent



Technical Specifications

System Functions

Automatic, discrete, random access, STAT sample priority

Throughput : 100 test/hour (without ISE), up to 300

test/hour with ISE (4 ions)

Measuring Principles Absorbance photometry, turbidimetry, lon

Selective Electrode technology

Methodology : End-point, fixed-time, kinetic, optional ISE

Programming Single/dual reagent chemistries,

> monochromatic/bichromatic, Linear/nonlinear multipoint calibration, Open system with user defined profiles and calculations

Reagent/Sample Handling:

Total 36 Sample & Reagent position, Reagent/Sample trav

Flexible as per user convenience

R1: 180~450µl, step by 1µl Reagent volume

R2: 30~250μl, step by 1μl

Sample volume 3~45µl, step by 0.5µl

liquid level detection, collision protection Reagent/Sample probe:

and inventory checking

: Automatic washing both inside and Probe cleaning

outside carry-over < 0.1% Automatic sample Pre-dilution and post-dilution

dilution ration up to 150

Dilution vessel : Disposable cuvette

External Bar Code Reader (optional)

Used for sample and reagent programming; applicable to various bar code systems including Code bar, ITF (Interleaved Two of Five), Code 128, Code 39, UPC/EAN, Code 93; capable to communicate with LIS in

a bi-directional mode

dilution

ISE Module (optional)

Measuring parameter: K⁺, Na⁺, Cl⁻, Li

Throughput Up to 200 tests per hour

Reaction System

Reaction rotor : Rotating tray, containing 40 cuvettes, reusable

Cuvette : Optional length 5mm

Reaction volume : 180~500ul Reaction temperature : 37± 0.1°C

Mixing system : Independent mixing probe

Optical System

Light Source : Halogen-tungsten lamp

Wavelength : 340nm, 405nm, 450nm, 510nm, 545nm,

578nm, 630nm 670nm

Linear range : 0~3.5 Abs

Control and Calibration

Calibration mode : Linear (one point, two-point and multi-point),

Logit-Log 4P, logit-Log 5P, spline, exponential,

polynomial, parabola

X-R, L-J, West guard multi-rule, Cumulative sum

check, twin plot

Operation Unit

Control rules

: Windows 2000 Pro with SP4 or Windows XP Operation system

Pro / Home

Interface : RS-232

Working Conditions

Power Supply : AC200~240V, 50/60Hz, 800W or

AC 100~130V, 50/60Hz, 800W : 15-30°C

Temperature Humidity . 35~85%

: Bench top: 690mm(W)x570mm(D)x595mm(H) Dimension

: 75kg Weight Water consumption : 2.5L/hour



Gliwice, Poland 9001:2008 & 17025:2005 Selangor, Malaysia 9001:2008 Dehradun, India 9001:2008, 14001:2004 & 13485:2003



About Avantor™ Performance Materials

Avantor Performance Materials manufactures and markets highperformance chemistries and materials around the world under several respected brand names, including the J.T.Baker®, Macron Fine Chemicals™, Rankem™, BeneSphera™ and POCH™ brands.





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