

Automatic Biochemistry Analyzer NOVA-3020



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

▶▶ System Functions

Type	: Fully Automated Random Biochemistry Analyzer
Throughput	: 200 test/hour, up to 280 tests/hour with ISE(optional)
Test Mode	: End point, Kinetios, Fixed time, Immunotubidimetry : Monochromatic, Bi-chromatic & Multi-standard Analysis Linearity & Nonlinearity Calibration : Single & Dual Reagents can be used
Test Setting	: Programmable for single -Parameter, multi-parameters and combined parameter, batch test
Test Range	: Clinical Biochemistry, Turbidimetry, ISE, Protein, Drug abuse
Parameter setting	: Completely open for editing test parameters and calculation parameters

▶▶ Sample System

Sample Tray	: 44 sample positions for primary tubes, test tubes and various sample cups : Whole sample tray can be removed and replaced : Any position can be aligned as the emergency test position
Sample Volume	: 3 μ l-30 μ l, programmed by 0.1 μ l step
Sample Handling	: Dilute and retest automatically when sample's concentration beyond limitation
Sample probe	: Liquid level detection and collision protection
Syringe	: High performance syringe, durable and maintenance free
Optional item	: Bar code reader

▶▶ Reagent system

Reagent tray	: 44 positions for Single & Dual reagents, reagent position can be aligned freely
Refrigeration	: Refrigerated reagent compartment, 24 hours non-stop cooling with Peltier element : Maintaining temperature 4-15°C
Reagent volume	: 150 μ l~300 μ l, programmed by 0.1 μ l step
Reagent probe	: Automatic liquid level detection function and collision protection : Reagent pre-heating function, inventory checking. : Real time monitoring of reagent residual volume and auto alarm
Probe cleaning	: Automatic washing for both inside and outside, carry over < 0.1%

▶▶ Reaction System

- Reaction tray** : 48 reaction cuvettes with 6mm optical path, good UV penetrability, low consumable, low cost
- Reaction technology**: Back-Dividing- Light Technology
- Reaction volume** : 250µl- 300µl
- Temperature** : 37°C, with +0.1°C fluctuation
- Mixing system** : Independent mixer
- Cleaning** : Automatic cuvettes cleaning and complete drainage to reduce carry over
- Water consumption**: 5L/hour
- Liquid detection** : Detergent, distilled water, waste liquid automatic detection and alarm

▶▶ Calibration & Quality Control

- Calibration mode** : Linear (one-point, two-point and multi-point), Logit - Logit4P, Logit-Log5P
Spline, Exponential, Polynomial, Parabola
- QC rules** : Westgard Multi-rule
- QC rule** : Ontra day & inter day QC

▶▶ Optical System

- Light source** : Halogen lamp 6V/10W, life span> 3000 hours
- Wavelength** : 340nm, 405nm, 450nm, 505nm, 546nm, 578nm,620nm,670nm,700nm
- Wavelength accuracy** : ±2nm
- Detector** : Photoelectron Diode Array
- Absorbance range** : 0.000 Abs-3.000 Abs

▶▶ Operating System

- Computer** : Windows 2000 System or above
- Data management** : Large capacity for results and reaction curves to be displayed, saved and printed
- Report** : Edit and print complete reports, format editable, support network printing
- Port** : RS-232

▶▶ Working Conditions

- Power** : 220V ± 22V, 50/60HZ ± 1Hz
- Power consumption** : ≤ 400VA
- Environmental temperature** : 15°C ~30°C
- Humidity** : ≤ 85%
- Dimension** : 760(L) X 560(W) X 1018(H)mm
- Weight** : ≥85Kgs

▶▶ Multifunction Sample & Reagent Tray

- 44 sample & reagent positions on board, can be extended to 88 positions.
- 24 hours non-stop cooling in Reagent & Sample position (4-15°C), Reagents & samples ready-to-use.
- Primary tubes, test tubes and various sample cups can be used.
- Samples can be serum, Urine and Cerebrospinal Fluid.
- STAT supported.



▶▶ High Precision Syringe

- High Precision syringe, durable, trouble and maintenance free.



▶▶ High Performance Mixer Design

- Independent Mixer, functions immediately after the samples and reagents pipetted in
- 3 different mixing speed, no air bubble, so as to increase the accuracy
- No reaction liquid splash.
- Polished mixer surface to ensure no air hanging.



▶▶ High Quality Colorimetry System

- Direct heating reaction tray, temperature increase to 37°C quickly.
- With $\pm 0.1^\circ\text{C}$ fluctuation, real time display on screen
- Low reagent consumption
- High Quality cuvette, with excellent UV penetrability, durable and economic.



▶▶ Sample / Reagent Dispensing System

- Automatic Liquid detection :probe selects the perfect position to minimize the cross contamination
- Inventory monitoring: sampling and reagent probe adjust depth automatically according to need for liquid, so as to increase accuracy.
- Collision protection: Probe depth adjust and reset automatically.
- Cleaning: Automatic cleaning with patent spring cleaning mode.
- Preheating: Reagent preheating function to keep reagent and sample ready to use.
- Syringe: high precision, durable, trouble and maintenance free.



▶▶ High-tech Washing

- 8 step auto-washing with 3 kinds of different detergents.
- Complete drainage to prevent any carry over.
- 6 times washing for each reaction cuvette.
- Water consumption <5L /hours
- Special and complementary washing for samples easy to be contaminated.
- Whole procedure is monitored to ensure cuvettes always clean.



▶▶ Intelligent software

- Multi-media operating software, easy to understand and operate.
- Real time online help system.
- Multi kinds of automatic monitoring function to ensure the analysis procedure scientific and intelligent.



▶▶ Intelligent liquid level detection

- Automatically detect levels of detergent, distilled water and waste liquid, with real time alarm.



▶▶ **Regulatory compliances**



▶▶ **Corporate Social Responsibility**

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical
Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶ **Reach us @**



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