

NGS - 3160

DNA AMPLIFICATION AND SEQUENCEING ANALYZER



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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►► Technical Advantages

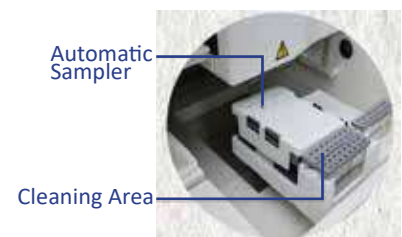
- All-open detection platform
- Meet the requirements of STR analysis and gene sequencing
- 6 patents for invention, 10 patents for utility model, 4 software copyrights
- Fluorescence excitation efficiency 40% higher than foreign competing products
- Solid-state laser featuring stable power and long life
- Advanced thermal system enabling precise temperature control
- Smaller size
- User-friendly Windows 10 operating system and multi-language software interface

►► Components

Optical system : laser, fluorescence testing module, area array CCD detector, automatic 3D sampler, automatic gel injection module, high-voltage power, incubator, embedded central measurement and control circuit, drive and control circuits for each component.

Supporting consumables: capillary array, buffer, gel, formamide, fluorescence calibration substances.

Software applications: DNA data acquisition software, forensic DNA fragment analysis software.



►► Technical Advantages

NGS 3160 Sequencer is applicable to individual and relationship identification in forensic DNA laboratory. Being an all-open platform, NGS 3160 is compatible with the reagent kits and consumables produced by mainstream manufacturers both at home and abroad. The instrument can be utilized for STR analysis and other scientific researches. The system contains instrument, build-in reagent kit, data capture software and expert analysis software, therefore can be used to handle common cases in forensic DNA laboratory and construct DNA database.

NGS 3160 Sequencer is mainly used in fragment analysis, disease linkage analysis, SNP analysis, SNPlex analysis, methylation analysis, SNPshort analysis, AFLP analysis, MLPA analysis, LOH analysis, SSCP analysis, etc.

►► Technical Features

- The key performance indicators of NGS 3160 Sequencer are able to compete with those of dominating foreign products.
- Fragment analysis: Good repeatability, can acquire intact and clear typing maps of DNA samples which are identical with the results of mainstream products.
- Sequencing accuracy: $SD \leq 0.12\text{bp}$; baseline noise $\leq 50\text{RFU}$, can recognize 1bp difference between DNA fragments;
- Show the real-time peak height ratio and identify the position of heterozygote accurately without leaving out;
- Interpretation of each base has been proven by the Phred Q20 Standard, and the length can be extended to 900+bp with a 98.5% accuracy.

NGS - 3160 Sequencer

NGS - 3160 Sequencer	
Size	812mm×610mm×532mm
Power supply voltage	220±10%V, 50 Hz ± 1 Hz
Ambient Temperature	15-30°C (temperature fluctuation should not exceed ±2°C while working)
Weight	120KG
Current & Power	Max current: 10A; Max power: 800W (approximation, computers and monitors are not included)

NGS - 3160 Sequencer	
Laser wavelength	505nm
Temperature Control Accuracy	$\Delta T \leq 0.2^{\circ}\text{C}$
Resolving power	1bp
Number of channels	16 (extensible)
Capillary length	36, 50, 80
Laser type	Long-life, high efficiency semiconductor solid-state laser
Number of fluorescent dyes	6
Sequencing function	Available
Consumables	Self-sufficient
Accuracy (50-400bp)	$SD \leq 0.12\text{bp}$
Reagents	Self-produced
Application scenarios	Public security department, medical treatment & health care, school and enterprise

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



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Size Analyzer



Ion Chromatograph



Water purification
system

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.



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