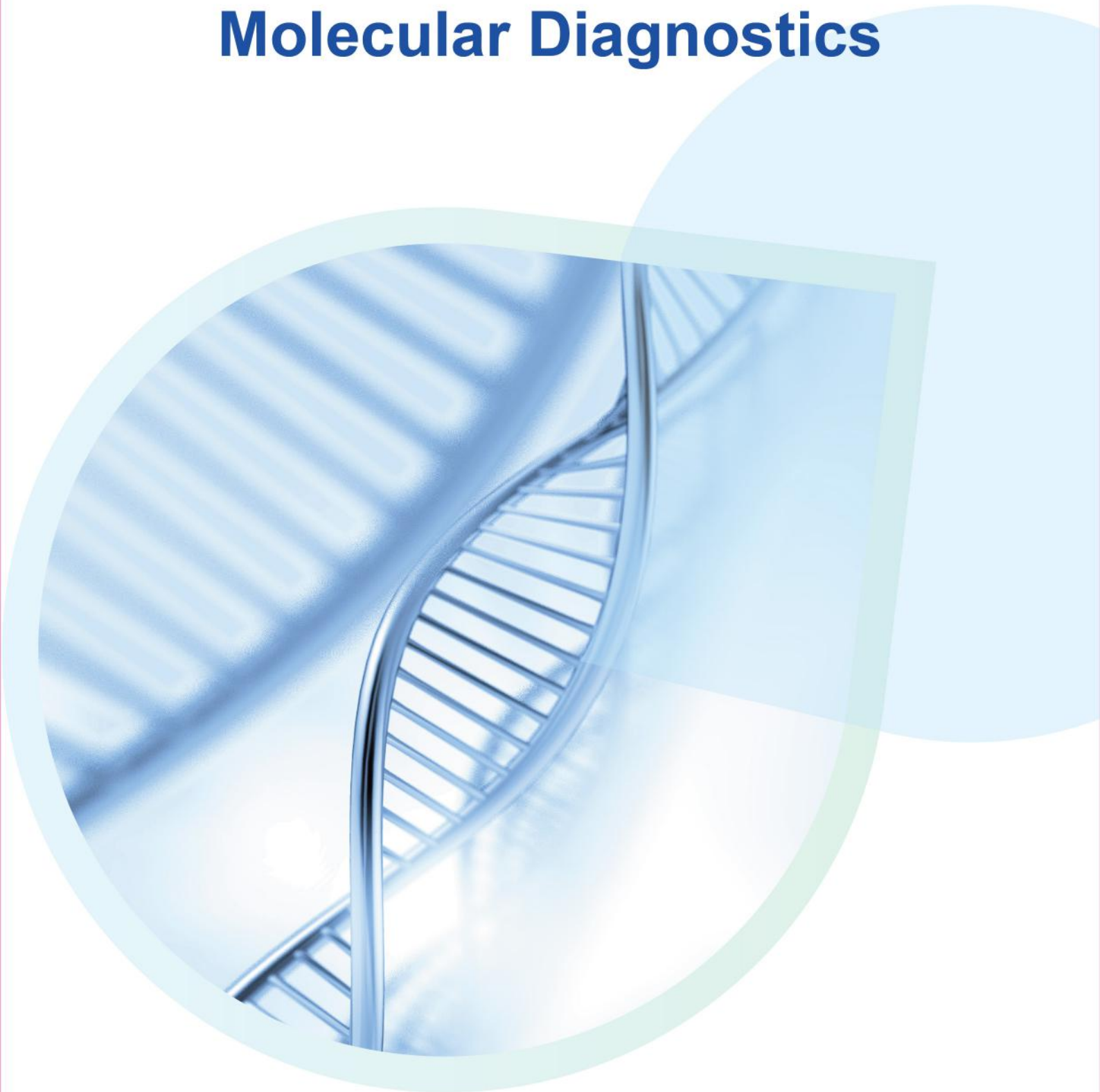


**Promotor<sup>®</sup>**

# Molecular Diagnostics



**ACON<sup>®</sup>**

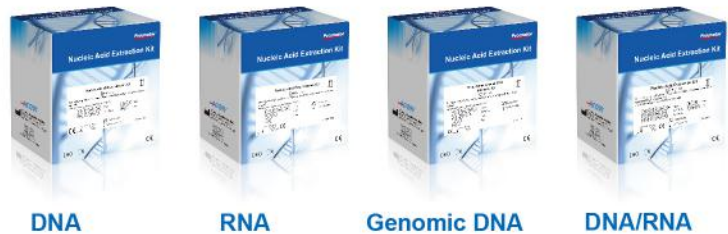


## NES-32 Nucleic Acid Extraction System

### Features & Benefits

- Up to 32 samples/run
- High purity & high yield
- Ready-to-use reagents
- 8-inch large color touch screen
- Aviation material heating base
- UV lamp and disposable consumables eliminate contamination

### Extraction Reagent Kits



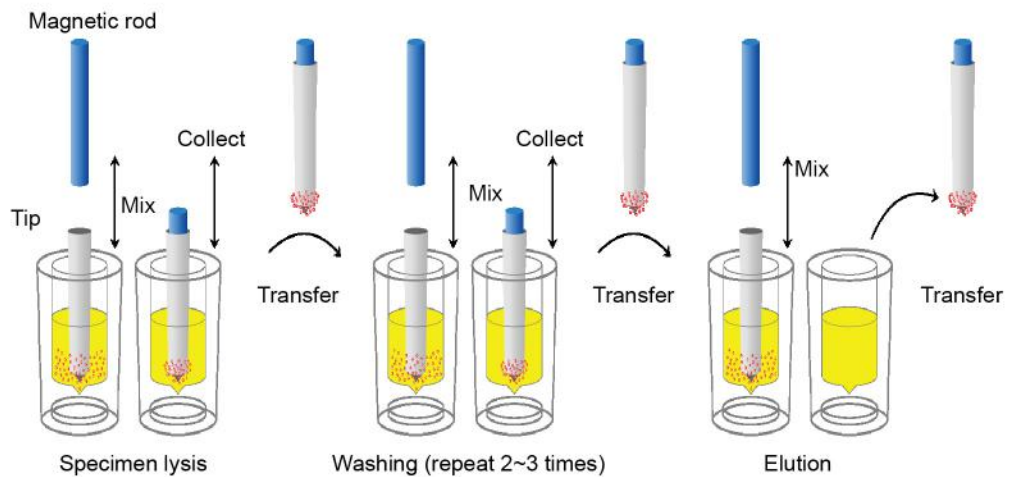
DNA

RNA

Genomic DNA

DNA/RNA

### Principle



### Specifications

Parameters	Specifications
Processing Volume	20 to 1,000 $\mu$ L
Sample capacity	Up to 32 samples per run
Well-to-Well CV	$\leq 1.5\%$
Collection Rate of Magnetic Particles	$\geq 98\%$
Heating Temperature	Lysis Temp (from RT to 120°C) Elution Temp (from RT to 120°C)
Sterilization	UV lamp
Dimensions	437 x 512 x 470 mm (W x D x H)
Processing Time	12-40 min
Instrument Port	USB/LAN
Power Source	100-240 VAC, 50 Hz/60Hz, 600 VA

# Viral Nucleic Acid Isolation Kits(Spin Column)



Use a simple, rapid protocol to generate high-quality templates for a broad range of downstream applications.

- Fast procedures and easy to use.
- Isolation and purification of high-quality viral DNA/RNA.
- High efficient recovery yield.
- Pure DNA/RNA ready for downstream applications.
- No phenol-chloroform extraction.



## High Pure Viral Nucleic Acid Isolation Kits Workflow

**1** Lysis



Specimen lysis



**2** Bind



Load Specimen



**3** Wash



Washing and dry



**4** Elute



Nucleic Acid elution

## Specifications

Parameters	Specifications
Format	Spin Column
Technology	Silica-membrane Technology
Sample Volume	200 µL
Elution Volume	50 µL
Sample Type	Serum, Plasma, Swab
Yield	>90% recovery
Processing	Manual (Centrifugation)
Processing Time per run	15-30 min
Purification of total RNA, miRNA, poly A+ Mrna, DNA or protein	Viral DNA or Viral RNA

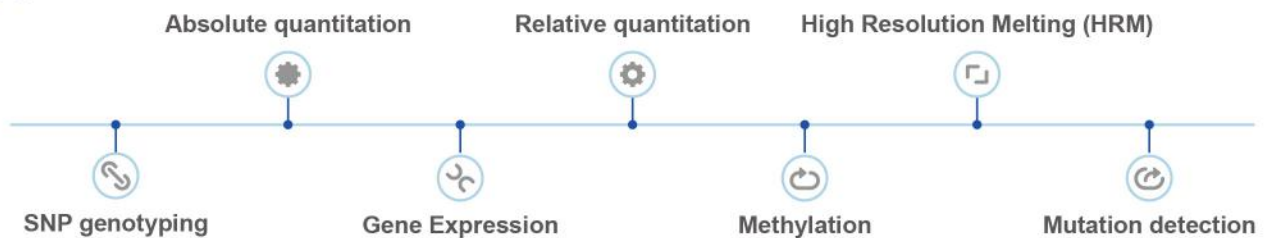


## 960 Real-Time PCR System

### Features & Benefits

- Broad dynamic range: 1~10<sup>10</sup> copies/mL
- Perform up to 4-target multiple analysis
- Long Life LED and sensitive PMT for high-performance results
- No need for ROX reference dye
- No crosstalk between well to well due to special optical system design
- Top signal detection technology to eliminate the influence of floccule or residual magnetic beads in the reaction
- Large color touch screen and easy-to-use software

### Applications



### Specifications

Thermal Cycling System	Peltier-based, 96-well block
Max Block Ramp Rate	>5°C /s
Max Block Cooling Rate	>4°C /s
Temperature Range	4-100°C
Temperature Accuracy	≤±0.1°C
Temperature Uniformity (at 55°C )	≤±0.1°C
Channel	4 channels
Compatible Dyes	Channel 1: FAM, SYBR Green; Channel 2: VIC, HEX, JOE, TET ; Channel 3: ROX, Texas Red; Channel 4: CY5
Additional Dye Available	Additional dyes within the wavelength range compatible with the filters are supported
Multiplex analysis	Up to 4 targets per well
Compatible Tubes	<ul style="list-style-type: none"> <li>• Standard optical 0.2 mL 96-well plates (Semi-skirted, Non-skirted)</li> <li>• 8-strip 0.2 mL tubes</li> <li>• 0.2 mL optical tubes</li> </ul>
Supported Volumes	20-100 µL
Optical System	Long life LED and PMT
Dynamic Range	1~10 <sup>10</sup>
Sensitivity	Detection of 1 copy of template in a 50 µL reaction
Applications	Comparative Ct, Standard Curve, Relative Standard Curve, Allelic Discrimination
Dimensions (w x d x h)	340 mm (13.4 in) x 557 mm (21.9 in) x 537 mm (21.2 in)
Weight	32 kg (70.6 lb)

# Molecular Diagnostic Reagents



## SARS-CoV-2 RT-PCR Test Kit

- Single-well, triple target assay covering high conserved regions within N, E and ORF1ab gene for high specificity.
- Full-process controls with negative, positive and internal controls.
- Qualitative detection of nucleic acids from SARS-CoV-2. \*

## Key Features and Performance

Features	Descriptions
Technology	Real-Time reverse transcription polymerase chain reaction (rRT-PCR)
Target Region	N, E, ORF1ab
Specimen Type	Oropharyngeal swab, nasopharyngeal swab and deep cough sputum
Internal Control	Yes
Minimum Sample Volume	200 µL
Test Duration	90 minutes
Limit of Detection	500 copies/mL
Precision of In-batch and batch (CV)	<5%
Positive Percent Agreement	97.46% (95%CI: 92.75%-99.47%)
Negative Percent Agreement	98.26% (95%CI: 94.99%-99.64%)
Accuracy	97.93% (95%CI: 95.56%-99.24%)
Storage Temperature	-20±5°C
Package Size	32 Tests/Kit

## HBV (Hepatitis B Virus) Quantitative PCR Test Kit

- Specimen: Serum or plasma
- High sensitivity: 20 IU/mL
- High precision: CV ≤1.5%
- Wide linear range: 50-5.0×10<sup>8</sup> IU/mL
- Internal control eliminates false-negative results
- Specificity: No cross-reactivity with HAV, HCV, HEV and HIV



## HCV (Hepatitis C Virus) Quantitative PCR Test Kit

- Specimen: Serum or plasma
- High sensitivity: 30 IU/mL
- High precision: CV ≤5%
- Wide linear range: 50-1.0×10<sup>8</sup> IU/mL
- Internal control eliminates false-negative results
- Specificity: No cross-reactivity with HAV, HBV, HEV and HIV



## Human Papilloma Virus (HPV) Series PCR Test Kits

	HPV-16/18	HPV-15 types with 16/18 Genotyping	HPV Genotyping-25 types
Technology	Real-Time PCR	Real-Time PCR	Reverse Dot Blot (RDB)
Sample Type	Cervical Cell	Cervical Cell	Cervical Cell
Detection Types	16/18	16, 18, 31, 33, 35, 39, 45, 51, 52, 53, 56, 58, 59, 66, 68	14 high-risk types: 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 68, 73 3 suspected high-risk types: 26, 53, 66 8 low-risk types: 6, 11, 40, 42, 43, 44, 81, 83.
Genotyping	No	HPV types 16, 18	25 types
Total Reaction Time	~1.5 h	~1.5 h	~5 h

## TB (Mycobacterium Tuberculosis) PCR Test Kit (Real-time)

- Specimen: Sputum
- Sensitivity: 10 bacteria/mL
- High precision: CV ≤5%
- Specificity: No cross-reactivity with UU, MP and CP
- Extraction reagent provided



## HLA-B27 (Human Leukocyte Antigen B27) PCR Test Kit

- Specimen: Whole blood
- Sensitivity: 2.5 ng target DNA/µL
- High precision: CV ≤5%
- Specificity: No cross-reactivity with other subtypes of HLA Genes
- Internal control eliminates false-negative results
- Extraction reagent provided



## Ordering Information

	Catalog	Product	Kit size
Nucleic Acid Extraction	P111-1011√*	NES-32 Nucleic Acid Extraction System	1 Unit/Kit
	P121-1101√*	Nucleic Acid (DNA) Extraction Kit	32 Tests/Kit
	P121-1111√*	Whole Blood Genomic DNA Extraction Kit	32 Tests/Kit
	P121-1121√*	Nucleic Acid (RNA) Extraction Kit	32 Tests/Kit
	P121-1201√*	Nucleic Acid (DNA) Extraction Kit (ready-to-use)	32 Tests/Kit
	P121-1211√*	Whole Blood Genomic DNA Extraction Kit (ready-to-use)	32 Tests/Kit
	P121-1221√*	Nucleic Acid (RNA) Extraction Kit (ready-to-use)	32 Tests/Kit
	P121-1301√*	Nucleic Acid Extraction Kit (ready-to-use)	32 Tests/Kit
Nucleic Acid Isolation	P121-1291√*	Viral DNA/RNA Isolation Kit	32/50 Tests/Kit
	P121-1051√*	Viral Nucleic Acid Isolation Kit	32 Tests/Kit
PCR	P131-1511	HBV (Hepatitis B Virus) Quantitative PCR Test Kit	32 Tests/Kit
	P131-1521	HCV (Hepatitis C Virus) Quantitative PCR Test Kit	32 Tests/Kit
	P131-1121√	PCR-Fluorescence Detection Kit for Human Papillomavirus Genotype 16/18 DNA	32 Tests/Kit
	P131-1501√	HPV 15 High-risk with 16/18 Genotyping PCR Test Kit	32 Tests/Kit
	P131-1481√	HPV (Human Papillomavirus) Genotyping PCR-RDB Test Kit	24 Tests/Kit
	P131-1301√	TB (Mycobacterium tuberculosis) PCR Test Kit	32 Tests/Kit
	P131-1541	HLA-B27 (Human Leukocyte Antigen B27) PCR Test Kit	32 Tests/Kit
	P131-1591√	SARS-CoV-2 RT-PCR Test Kit	32 Tests/Kit
	P111-2011	960 Real-Time PCR System	1 Unit/Kit

√ CE marked \*FDA Device Listing

## Products Under Development

Series	Product	Kit Size
Hepatitis	Hepatitis B Virus and YMDD mutation Test kit	32 Tests/Kit
	Hepatitis E Virus Test kit	32 Tests/Kit
Sexually Transmitted Disease	CT (Chlamydia Trachomatis) Test Kit	32 Tests/Kit
	UU (Ureaplasma Urealyticum) Test kit	32 Tests/Kit
	NG (Neisseria Gonorrhoeae) Test kit	32 Tests/Kit
	HSV II PCR Test kit	32 Tests/Kit
Tumor	HPV 18 high-risk types with 16/18 Genotyping Test Kit	32 Tests/Kit
	EB (Epstein-Barr virus) Test Kit	32 Tests/Kit
Fertility	HCMV (Cytomegalovirus Test Kit	32 Tests/Kit
Respiratory Infectious Disease	MP (Mycoplasma pneumoniae) Test Kit	32 Tests/Kit
Gastrointestinal Disease	EV71 (human enterovirus 71) Test Kit	32 Tests/Kit
	Coxsackie A virus RNA Test Kit	32 Tests/Kit

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