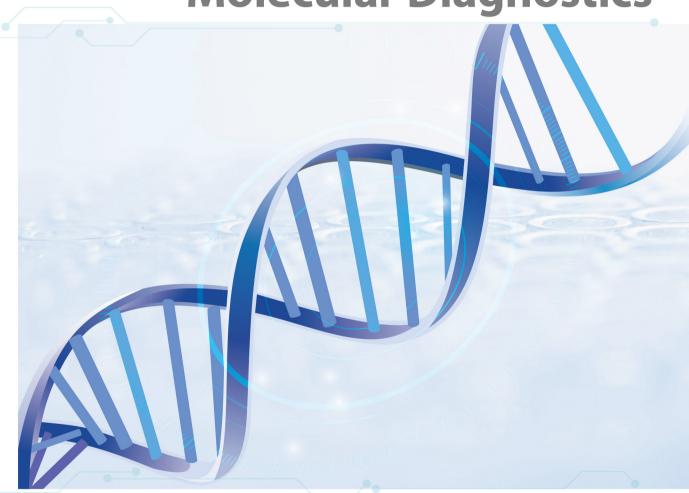
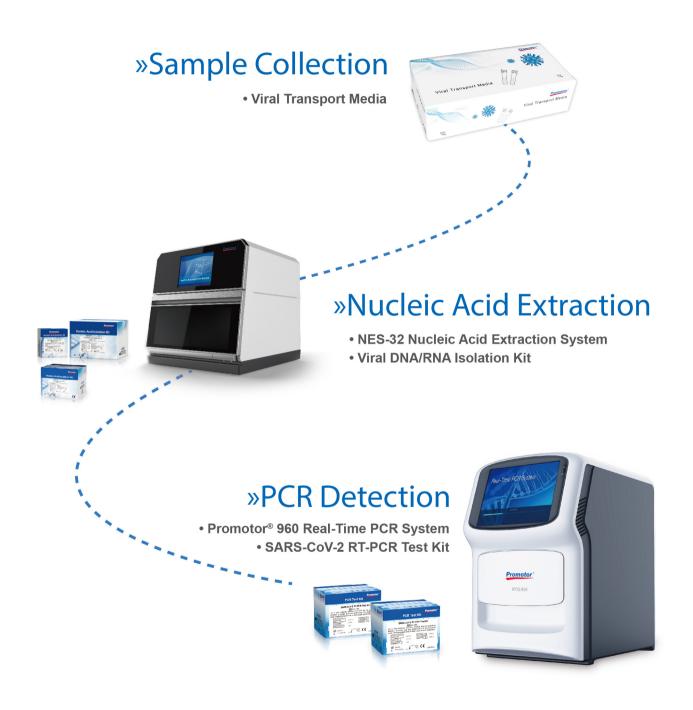


# **Molecular Diagnostics**





# Products We Provide to SARS-CoV-2





We have provided customized consulting service for 12 years.

More details, please contact:

# Viral Transport Made

# **Viral Transport Media**

#### **Principle**

The viral transport media of this product contains guanidine salt. After thoroughly mix with the collected specimen, the protein of the specimen is denatured and thus inactivated. The guanidine salt can also destroy the activity of nuclease that ensures the stability of the virus nucleic acid during preservation and transportation.

#### **Product Feature**



#### Safe and effective

• High concentration of guanidine salt for rapid inactivation of samples, providing protection to operators.



#### Long preservation time

• Samples in the VTM can be stored at 2-37°C for at least 7 days, and below -70°C for a longer period of time.



#### Multiple swab

• Suitable for a variety of swab types, including nasopharyngeal swab, oropharyngeal swab and nasal swab.



#### Easy to use

• After the sample is collected, break the swab and leave the swab head in VTM. If not extracted immediately, the sample can be stored or transported under appropriate conditions.

#### **Acquisition Process**

• To collect a nasopharyngeal swab sample:



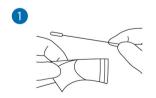








• To collect a nasal swab sample:





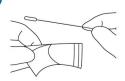






• To collect an oropharyngeal swab sample:











# **NES-32 Nucleic Acid Extraction System**

#### **Features & Benefits**

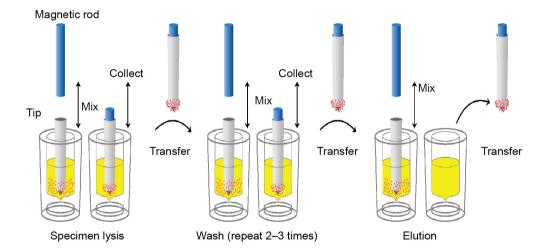
- Up to 32 samples/run
- High purity & high yield
- Ready-to-use reagents
- 8-inch large color touchscreen
- · Heating base made of aviation material
- UV lamp and disposable consumables to prevent contamination

 $\epsilon$ 

#### **Extraction Reagent Kits**



#### **Principle**



# **Specifications**

Parameters	Descriptions
Processing Volume	20 to 1,000 μL
Sample Capacity	Up to 32 samples per run
Well-to-Well CV	≤ 1.5%
Collection Rate of Magnetic Particles	≥ 98%
Heating Temperature	Lysis Temp (from RT to 120°C)
rieating remperature	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





**DNA/RNA** 

# **Viral Nucleic Acid Isolation Kits (Spin Column)**

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.
- Highly efficient recovery yield.
- Pure DNA/RNA ready for downstream applications.
- No phenol-chloroform extraction.



## **Highly pure Viral Nucleic Acid Isolation Kits workflow**



## **Specifications**

Parameters	Descriptions
Format	Spin Column
Technology	Silica-membrane Technology
Sample Volume	200 μL
Elution Volume	50 μL
Sample Type	Serum, Plasma, Swabs
Yield	> 90% Recovery
Processing	Manual (Centrifugation)
Processing Time per Run	15 – 30min

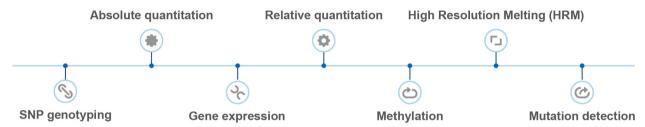


# 960 Real-Time PCR System

#### **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
- Special optical system design to avoid crosstalk from well to well
- Top signal detection technology to eliminate the influence of floccule or residual magnetic beads in the reaction
- Large color touchscreen and easy-to-use software

#### **Applications**



#### **Specifications**

D	Descriptions
Parameters	Descriptions
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
Number of Channels	4 channels
Compatible Dyes	Channel 1: FAM, SYBR Green; Channel 2: VIC, HEX, JOE, TET; Channel 3: ROX, Texas Red; Channel 4: CY5
Additional Dyes Available	Additional dyes within the wavelength range compatible with the filters are supported
Multiplex Analysis	Up to 4 targets per well
Compatible Tubes	<ul> <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	$1-10^{10}$
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

- CE marked, UK MHRA approved.
- Single-well, triple-target assay covering highly conserved regions within N, E and ORF1ab (RdRp) genes for high specificity.
- · Full-process controls with negative, positive and internal controls.
- Qualitative detection of nucleic acids from SARS-CoV-2.
- Applied PCR machine: Applied Biosystems® 7500, Applied Biosystems® QuantStudio5, Promotor® 960 Real-Time PCR System, SLAN®-96P, CFX96 (Bio-Rad), LightCycler480 (Roche)

#### **Key Features and Performance**

Parameters	Descriptions
Technology	Real-Time reverse transcription polymerase chain reaction (rRT-PCR)
Target Genes	N, E, ORF1ab (RdRp)
Specimen Types	Oropharyngeal swab, nasopharyngeal swab and deep cough sputum
Internal Control	RNase P
Minimum Sample Volume	200 μL
Programmed Duration	<60 minutes (Test duration depends on applied PCR machine)
Limit of Detection	500 copies/mL
Precision of In-batch and batch (CV)	< 5%
*Sensitivity	99.71 % (95% CI: 98.41% – 99.99%)
*Specificity	98.28 % (95% CI: 96.63% – 99.25%)
*Accuracy	98.89 % (95% CI: 97.91% – 99.49%)
Storage Temperature	- 20 ± 5 °C
Package Size	32 Tests/Kit

\*data from 811 specimens

## We also offer other series molecular diagnostics products:

- HBV (Hepatitis B Virus) Quantitative PCR Test Kit
- HCV (Hepatitis C Virus) Quantitative PCR Test Kit
- TB (Mycobacterium Tuberculosis) PCR Test Kit (Real-time)
- HLA-B27 (Human Leukocyte Antigen B27) PCR Test Kit
- HPV 15 High-risk with 16/18 Genotyping PCR Test Kit
- HPV 18 High-risk Types with 16/18 Genotyping PCR Test Kit
- HPV (Human Papillomavirus) Genotyping PCR-RDB Test Kit



For more details, please see the Molecular Diagnostics Catalog.

#### **Ordering Information**

Series	Catalog	Product	Kit size
Sample Collection	P121-1341√	Viral Transport Media	50 Tests/Kit
	P111-1011√*	NES-32 Nucleic Acid Extraction System	1 Unit/Package
	P121-1301√*	Nucleic Acid Extraction Kit (ready-to-use)	32 Tests/Kit
Nucleic Acid	P121-1101√*	Nucleic Acid (DNA) Extraction Kit	32 Tests/Kit
Extraction	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
Nucleic Acid	P121-1291√*	21-1291√* Viral DNA/RNA Isolation Kit 32/50 Tests/Kit	32/50 Tests/Kit
Isolation P121-105	P121-1051√*	Viral Nucleic Acid Isolation Kit	32 Tests/Kit
	P111-2011√*	960 Real-Time PCR System	1 Unit/Package
	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-	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

√ 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
	CT (Chlamydia Trachomatis) Test Kit	32 Tests/Kit
Sexually Transmitted Disease	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 (Human 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
	Coxsachie A virus RNA Test Kit	32 Tests/Kit

We also offer other diagnostic and medical products for:

Blood Glucose, Lateral Flow, Urinalysis Products, Hematology, POCT Products, Immunoassay and more.

Contact us for worldwide distribution and custom manufacturing (OEM) opportunities.

**✓ CE Marked for sale in the European Community** 



All right reserved. Programs and Specifications subject to changes without prior notice, please contact local distributors.



ACON Biotech (Hangzhou) Co., Ltd.

No.210 Zhenzhong Road, West Lake District, Hangzhou, P.R.China, 310030 Tel: +86-571-8777 5689 Fax: +86-571-8777 5781 Email: information@aconlab.com.cn PCR.Info@aconlab.com.cn

PN: 1350350801 © 2021 ACON Biotech, Inc.