

## Solution for COVID-19 Diagnosis



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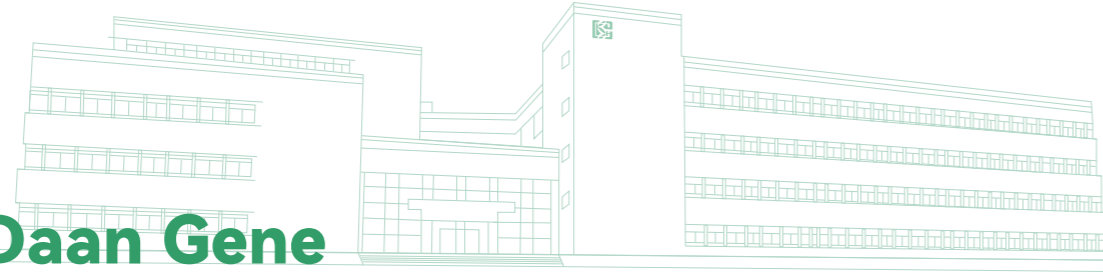
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Decode Genetic Life. Assure Human Health.

# About Daan Gene



Daan gene Co., Ltd. is a high-tech biomedical enterprise committed to the R&D, manufacturing and marketing of IVD products relating to disease diagnosis and human health.

Founded in 1993 and headquartered in Guangzhou, China, Daan Gene ranks among China's leading molecular diagnosis companies with its expertise in many core businesses. Apart from developing new diagnostic tests, automatic extractors and real-time PCR systems, its objectives also include producing core raw material, CRMs and setting up service labs to perform clinical analyses for hospitals and individuals.

Today, Daan Gene's innovative molecular diagnostic solutions have helped millions of patients globally. Besides molecular diagnostic technology, the company is also committed to immunological diagnostic technology, biochemical technology, POCT technologies, etc. Multiple product lines are deployed by Daan Gene, making a comprehensive layout in the IVD industry.



# COVID-19 Product List

## Reagents

### PCR Diagnostic Kit

DA-930	Detection Kit for 2019 Novel Coronavirus (2019-nCoV) RNA (PCR-Fluorescence Probing) (Regular)	NMPA, FSC, CE, WHO EUL
DA099X	Detection Kit for 2019-nCoV (PCR-Fluorescence) (Fast)	NMPA, FSC, CE, WHO EUL <i>(submission pending)</i>
DA107X	Detection Kit for 2019-nCoV (PCR-Fluorescence) (Saliva)	CE
DA117X	Detection Kit for 2019-nCoV (E/N/RDRP Gene)	CE
DA104X	Detection Kit for Influenza A/B and 2019-nCoV (PCR-Fluorescence Probing)	CE
DA116X	2019-nCoV Delta Variant Detection Kit (PCR-Fluorescence Probing)	CE

### VTM

DA0970	Specimen Preservation Reagent	NMPA, FSC, CE
DA0980	Specimen Preservation Solution	NMPA, FSC, CE

### Nucleic Acid Extraction Kit

DA060X	Nucleic Acid Extraction Kit (Magnetic Bead, Fast)	NMPA, FSC, CE
DA062X	Nucleic Acid Isolation or Purification Reagent (Magnetic Bead)	NMPA, FSC, CE
DA0591	RNA/DNA Purification Kit (Spin Column)	NMPA, FSC, CE
DA0940	RNA/DNA Purification Kit (Preservation)	NMPA, FSC, CE
DA100X	Nucleic Acid Extraction Kit (Magnetic Bead)	NMPA, FSC, CE <i>(submission pending)</i>

## Instruments

### Sample Preparation System

Stream DP96	Sample Processing System	NMPA, FSC, CE <i>(submission pending)</i>
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### Nucleic Acid Extraction System

Smart 32	Nucleic Acid Extraction System	NMPA, FSC, CE
Stream SP96	Automatic Nucleic Acid Extraction Instrument	NMPA, FSC, CE <i>(submission pending)</i>
Swift 96	Automatic Nucleic Acid Extraction Instrument	NMPA, FSC, CE <i>(submission pending)</i>

### Real-time PCR System

AGS8830	Real-time PCR Detection System	NMPA, FSC, CE
AGS4800	Real-time PCR Detection System	NMPA, FSC, CE

# DA-930

## Detection Kit for 2019 Novel Coronavirus (2019-nCoV) RNA (PCR-Fluorescence Probing) (Regular)




CE NMPA FSC WHO EUL

### Intended Use

This kit is used for the in vitro qualitative detection of 2019 Novel Coronavirus (2019-nCoV) ORF1ab and N genes in the throat swabs and sputum specimens of suspected COVID-19 patients, clustering cases and others needing diagnosis or differential diagnosis.

### Features

 Dual targets detection: ORF1ab and N gene

 Endogenous internal control

### Specification

<b>Precision</b>	CV<5%
<b>Target</b>	ORF1ab gene, N gene
<b>Sample type</b>	Throat Swab, Sputum
<b>LOD</b>	500 copies/mL
<b>PCR reaction system</b>	25 µL
<b>Storage and shelf life</b>	-20±5°C, 9 months
<b>Compatible instrument</b>	AGS4800, ABI 7500, LightCycler480

### Order Information

Description	Cat. No	Specification (Tests/Kit)
Detection Kit for 2019 Novel Coronavirus (2019-nCoV) RNA (PCR-Fluorescence Probing)	DA-930	Large package, 24 tests/kit
		Large package, 48 tests/kit
		Large package, 96 tests/kit

# DA099X

## Detection Kit for 2019-nCoV (PCR-Fluorescence) (Fast)




NMPA CE FSC


### Intended Use


This kit is used for the in vitro qualitative detection of 2019 Novel Coronavirus (2019-nCoV) ORF1ab and N genes in the throat swabs and sputum of suspected COVID-19 patients, clustering cases and others needing diagnosis or differential diagnosis.

### Features

 **Fast, 35 min** to get results

 Endogenous internal control

 UDG enzyme to control contamination in PCR

 Combine with release reagent to simplify extraction steps

### Specification

<b>Target</b>	ORF 1ab gene, N gene
<b>Sample type</b>	Throat Swab, Sputum
<b>LOD</b>	500 copies/mL
<b>Storage and shelf life</b>	-20±5°C, 9 months
<b>Compatible instrument</b>	AGS8830, AGS4800, ABI 7500

### Order Information

Description	Cat. No	Specification (Tests/Kit)
Detection Kit for 2019-CoV (PCR-Fluorescence)	DA0990	Large package, 24 tests/kit
	DA0991	Large package, 48 tests/kit
	DA0992	Large package, 96 tests/kit

### Detection range covers wild type 2019-nCoV and its variants:

B.1.1.7 (Alpha)	B.1.525 (Eta)
B.1.351 (Beta)	B.1.526 (Iota)
B.1.617.1 (Kappa)	B.1.617.2 (Delta)
P.1 (Gamma)	C.37 (Lambda)
P.2	B.1.621 (Mu)
P.3	B.1.1.529 (Omicron)

# DA107X

## Detection Kit for 2019-nCoV (PCR-Fluorescence) (Saliva)



### Intended Use

This kit is used for the in vitro qualitative detection of 2019 Novel Coronavirus (2019-nCoV) ORF1ab and N genes in the throat swabs, sputum and saliva specimens of suspected COVID-19 patients, clustering cases and others needing diagnosis or differential diagnosis.

### Features

- Fast, 35 min** to get results
- Saliva sample is alternative
- UDG enzyme to control contamination in PCR
- Combine with release reagent to simplify extraction steps

### Specification

<b>Target</b>	ORF1ab gene, N gene
<b>Sample type</b>	Throat Swab, Sputum, Saliva
<b>LOD</b>	500 copies/mL
<b>Storage and shelf life</b>	-20±5°C, 9 months
<b>Compatible instrument</b>	AGS8830, AGS4800, ABI 7500

### Order Information

Description	Cat. No	Specification (Tests/Kit)
Detection Kit for 2019-nCoV (PCR-Fluorescence)	DA1070	Large package, 24 tests/kit
	DA1071	Large package, 48 tests/kit
	DA1072	Large package, 96 tests/kit

# DA117X

## Detection Kit for 2019-nCoV (E/N/RDRP Gene)



### Intended Use

This kit is intended for in vitro qualitative detection of 2019 Coronavirus (2019-nCoV) N gene, E gene, and RDRP gene in the oropharyngeal swabs, nasopharyngeal swab, and sputum specimens of suspected COVID-19 patients, clustering cases and others needing diagnosis or differential diagnosis.

### Features

- Three targets labeled
- Endogenous internal control
- UDG enzyme to control contamination in PCR

### Specification

<b>Target</b>	Novel coronavirus (2019-nCoV) N gene, E gene, and RDRP gene
<b>Sample type</b>	Oropharyngeal swabs, nasopharyngeal swab, sputum specimens
<b>Qualitative/quantitative</b>	Qualitative
<b>LOD</b>	500 copies/mL
<b>Precision</b>	CV < 5%
<b>Storage and shelf life</b>	-20±5°C, 12 months
<b>Compatible instrument</b>	ABI 7500, AGS4800, AGS8830, and Bio-Rad CFX96

### Order Information

Description	Cat. No	Specification (Tests/Kit)
Detection Kit for 2019-nCoV (E/N/RDRP Gene)	DA1170	Large package, 48 tests/kit
	DA1171	Large package, 96 tests/kit

#### Detection range covers wild type 2019-nCoV and its variants:

B.1.1.7 (Alpha)	B.1.525 (Eta)
B.1.351 (Beta)	B.1.526 (Iota)
B.1.617.1 (Kappa)	B.1.617.2 (Delta)
P.1 (Gamma)	C.37 (Lambda)
P.2	B.1.621 (Mu)
P.3	B.1.1.529 (Omicron)

#### Detection range covers wild type 2019-nCoV and its variants:

B.1.1.7 (Alpha)	B.1.525 (Eta)
B.1.351 (Beta)	B.1.526 (Iota)
B.1.617.1 (Kappa)	B.1.617.2 (Delta)
P.1 (Gamma)	C.37 (Lambda)
P.2	B.1.621 (Mu)
P.3	B.1.1.529 (Omicron)

# DA104X

## Detection Kit for Influenza A/B and 2019-nCoV (PCR-Fluorescence Probing)



### Intended Use

This kit is designed for the identification of Influenza A virus, Influenza B virus, and 2019-nCoV in respiratory samples. With high specificity, sensitivity and repeatability, this kit is able to assist the diagnosis of Flu A/Flu B and 2019-nCoV.

### Features

- Testing for Flu A/B and 2019-nCoV at once
- Endogenous internal control
- High specificity, no cross-reaction with other similar pathogens

### Specification

<b>Technology</b>	Multiplex PCR technology	
<b>Target</b>	2019-nCoV	N gene, ORF1ab gene
	Flu A / Flu B	M gene
<b>Sensitivity</b>	500 copies/mL	
<b>Sample type</b>	Throat swab and sputum	
<b>Storage and shelf life</b>	-20±5 °C, 9 months	
<b>Compatible instrument</b>	ABI 7500	

### Order Information

Description	Cat. No	Specification (Tests/Kit)
Detection Kit for Influenza A/B and 2019-CoV	DA1041	Large package, 24 tests/kit
	DA1042	Large package, 48 tests/kit

# DA116X

## 2019-nCoV Delta Variant Detection Kit (PCR-Fluorescence Probing)



### Intended Use

This kit is intended for in vitro qualitative detection of S gene mutations L452R, T478K, and P681R in 2019-nCoV Delta Variant in the oropharyngeal swabs, nasopharyngeal swabs, and saliva specimens from suspected pneumonia cases infected by novel coronavirus, clustered cases and others needing diagnosis for novel coronavirus to identify 2019-nCoV Delta variant.

### Features

- Endogenous internal control
- UDG enzyme to control contamination in PCR
- Mutations L452R, T478K, and P681R in the 2019-nCoV Delta Variant S gene identification

### Specification

<b>Target</b>	2019-nCoV Delta Variant S gene (mutations L452R, T478K, and P681R) and ORF1ab gene
<b>Sample type</b>	Oropharyngeal swabs, nasopharyngeal swabs and saliva
<b>Qualitative/quantitative</b>	Qualitative
<b>LOD</b>	500 copies/mL
<b>Precision</b>	CV < 5%
<b>Storage and shelf life</b>	-20±5°C, 12 months
<b>Method</b>	One-step RT-PCR
<b>Compatible instrument</b>	ABI 7500, AGS4800

### Order Information

Description	Cat. No	Specification (Tests/Kit)
2019-nCoV Delta Variant Detection Kit (PCR-Fluorescence Probing)	DA1160	Large package, 48 tests/kit
	DA1161	Large package, 96 tests/kit

# DA0970




## Specimen Preservation Reagent



### Intended Use

This kit is used for the preservation of tissue and cytopathological analysis specimen.

### Features

-  Virus inactivation
-  Prevent RNA from degradation
-  Transportation and storage at room temperature



### Order Information

Description	Cat. No	Specification (Tests/Kit)
Specimen Preservation Reagent	DA0970	1.5 mL/tube, 100 tubes/kit
		3 mL/tube, 100 tubes/kit
		5 mL/tube, 100 tubes/kit
		6 mL/tube, 100 tubes/kit
		10 mL/tube, 50 tubes/kit
		500 mL/bottle, 1 bottle/kit

# DA0980




## Specimen Preservation Solution



### Intended Use

It is used for preservation of tissue and cytopathology analysis specimens.

### Features

-  No inactivating ingredients
-  Prevent RNA from degradation
-  Transportation and storage at room temperature



### Order Information

Description	Cat. No	Specification (Tests/Kit)
Specimen Preservation Solution	DA0980	1 mL/ tube, 100 tubes/kit
		3 mL/ tube, 100 tubes/kit
		6 mL/ tube, 100 tubes/kit

# DA060X DA062X

## Nucleic Acid Extraction Kit (Magnetic Bead)

Magnetic bead is a simple and reliable method of purifying DNA/RNA. Under optimized conditions, DNA/RNA selectively binds to the surface of magnetic beads, while other contaminants stay in solution. After washing and elution, purified DNA/RNA can then be used directly in down-stream molecular biology applications.

### Features

- High sensitivity, wide linear range.
- High magnetic beads acquisition rate.
- Good repeatability.
- Wide range of application.



### Order Information

Description	Cat. No	Package	Compatible Instrument	Duration
Nucleic Acid Extraction Kit (Magnetic Bead, Fast)	DA0601	20 tests/kit (Pre-packaged)	Smart 32	18 min/run
	DA0602	32 tests/kit (Pre-packaged)	Smart 32, Stream SP96	
	DA0603	96 tests/kit (Pre-packaged)	Swift 96, Kingfisher	
Nucleic Acid Isolation or Purification Reagent (Magnetic Bead)	DA0621	96 tests/kit (Large package)	Smart 32, Stream SP96	55 min/run
	DA0623	32 tests/kit (Pre-packaged)	Smart 32, Stream SP96	
Nucleic Acid Extraction Kit (Magnetic Bead)	DA1003	96 tests/kit (Pre-packaged)	Swift 96, Kingfisher	24 min/run

# DA0591

## RNA/DNA Purification Kit (Spin Column)

Spin column-based nucleic acid purification is a solid phase extraction method to quickly purify nucleic acids. This method relies on the fact that nucleic acid will bind to the solid phase of silica under certain conditions.

### Features

- Economical, no need extraction instruments.
- Extraction of high-quality DNA and RNA.
- Wide range of application.



### Order Information

Description	Cat. No	Package	Duration
RNA/DNA Purification Kit (Spin Column)	DA0591	20 tests/kit (Large package)	30-120 min (1-48 samples)
		48 tests/kit (Large package)	

# DA0940

## RNA/DNA Purification Kit (Preservation)

This kit is used for the collection and preservation of virus specimens. Combining the function of inactivation, lysis and nucleic acid extraction, it can handle the specimen from collecting to nucleic acid releasing in one process. The released DNA or RNA can be used directly as a PCR template for amplification.

### Features

- Sample collection, storage and nucleic acid extraction can be combined into one step.
- No need instrument, nucleic acid can be released directly, then can be used as PCR template.

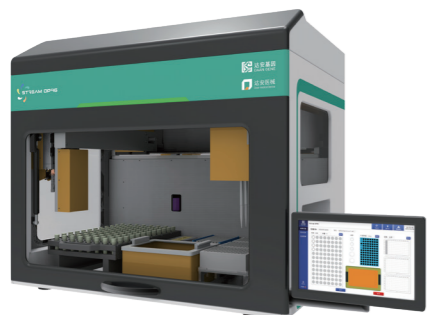


### Order Information

Description	Cat. No	Package	Duration
RNA/DNA Purification Kit (Preservation)	DA0940	400 µL/tube, 100 tubes/kit	5-10 min/sample
		1 mL/tube, 100 tubes/kit	
		2 mL/tube, 100 tubes/kit	
		3 mL/tube, 100 tubes/kit	
		4 mL/tube, 100 tubes/kit	
		5 mL/tube, 100 tubes/kit	
		6 mL/tube, 100 tubes/kit	
		8 mL/tube, 100 tubes/kit	

## Stream DP96

Sample Processing System



- Automated sample transfer processing system.
- Independent dual-channel pipetting modules.
- Transfer 96 samples in 25 minutes.
- Integrate process: tube decapping, barcode scanning, sample transfer, reagent dispensing and tube recapping.
- Safe: High efficiency filtration system/UV light.
- Unique: Compatible with one-tube method/ Sample pooling mode.

NMPA FSC

## Smart 32

Nucleic Acid Extraction System



- Adopting magnetic bead technology.
- Extract and purify 32 samples in 18 minutes.\*
- Editable experiment procedure touch screen to control door-open or door-close.
- UV light to decontaminate.

\*Rapid Nucleic Acid Extraction Kit DA060X.

NMPA CE FSC

## Steam SP96

Automatic Nucleic Acid Extraction Instrument



- Fully-automatic nucleic acid extraction and PCR reaction preparation.
- High-throughput: 96 samples can be extracted in 18 minutes.\*
- High-precision liquid handling technology.
- Anti-contamination: HEPA filter system, 100% exhaust airflow circulation, UV disinfection.
- Flexible: 9 kinds of PCR reaction can be set up in one run.
- 2 extraction modules running individually.

\*Rapid Nucleic Acid Extraction Kit DA060X.

NMPA FSC

## Swift 96

Automatic Nucleic Acid Extraction Instrument



- High-throughput and automated nucleic extraction adopting magnetic bead technology.
- Extract and purify nucleic acid 1-96 samples in 24 minutes.\*
- Visualized interface, touch screen, editable program, easy to operate.
- Magnetic beads recovery rate  $\geq 98\%$ .
- Anti-contamination: exhaust airflow circulation, UV light.

\*Rapid Nucleic Acid Extraction Kit DA1003.

NMPA FSC

## AGS8830-8/AGS8830-16

Real-time PCR Detection System



- Fast: Get results in 35 minutes collocating with DA099X/DA107X.
- Throughput: 8 or 16 samples
- Accurate Temperature Control: Advanced semiconductor refrigeration technology.
- User-friendly: LCD screen/Humanized operation interface.
- Large Data Storage: Store more than 1000 files.
- Portable: 5.5 kg
- Result out-put: directly display on the screen or transfer by USB.

NMPA CE FSC

## AGS4800-48/96/144

Real-time PCR Detection System



- Bench-top professional instrument meets variable user requirements in life science and biology.
- High-throughput: 48, 96 or 144 samples
- Multi-fluorescence channels: 6 fixed and 2 customized channels.
- Automatic sample inlet and outlet as well as automatic hot lid.
- Wireless remote control and analysis.
- LIMS connectivity

NMPA CE FSC