

Solution for COVID-19 Diagnosis

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Decode Genetic Life. Assure Human Health.

About Daan

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. The products involve infectious disease detection, TORCH, precision medicine, blood screening, public health and scientific research services. Multiple product lines are deployed by Daan Gene, making a comprehensive layout in the IVD industry.



Originated from Sun Yat-sen University, with **30+** years of experience in the molecular diagnosis industry.



100% tender winner for 2019-nCoV PCR kits in domestic 19 provinces.



The 1st company in China to obtain **CE List A** approval for **HBV/HCV** PCR kit.



WHO, World Bank Group, Global Fund, UNICEF, Consulates General of PCR strategy partner.

COVID-19 Product List

Reagents

PCR Diagnostic Kit

DA093X	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 <small>(submission pending)</small>
DA107X	Detection Kit for 2019-nCoV (PCR-Fluorescence) (Saliva)	CE
DA117X	Detection Kit for 2019-nCoV (N/E/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
DA122X	2019-nCoV Omicron Variant Detection Kit (PCR-Fluorescence)	CE

VTM

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

Nucleic Acid Extraction Kit

DA0591	RNA/DNA Purification Kit (Spin Column)	NMPA, FSC, CE
DA094X	RNA/DNA Purification Kit (Preservation)	NMPA, FSC, CE
DA095X	RNA/DNA Purification Kit (Release)	NMPA, FSC, CE
DA060X	Nucleic Acid Extraction Kit (Magnetic Bead)	NMPA, FSC, CE
DA062X	Nucleic Acid Isolation or Purification Reagent (Magnetic Bead)	NMPA, FSC, CE
DA063X	RNA/DNA Purification Kit (Magnetic Bead)	NMPA, FSC, CE
DA064X	RNA/DNA Extraction or Purification Kit (Magnetic Bead) (Tissue samples)	NMPA, FSC, CE
DA100X	Nucleic Acid Extraction Kit (Magnetic Bead)	NMPA, FSC, CE

Instruments

Sample Preparation System

DA8050	Sample Processing System (Model: Stream DP96) <small>(Throughput 96)</small>	NMPA, FSC, CE
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Nucleic Acid Extraction System

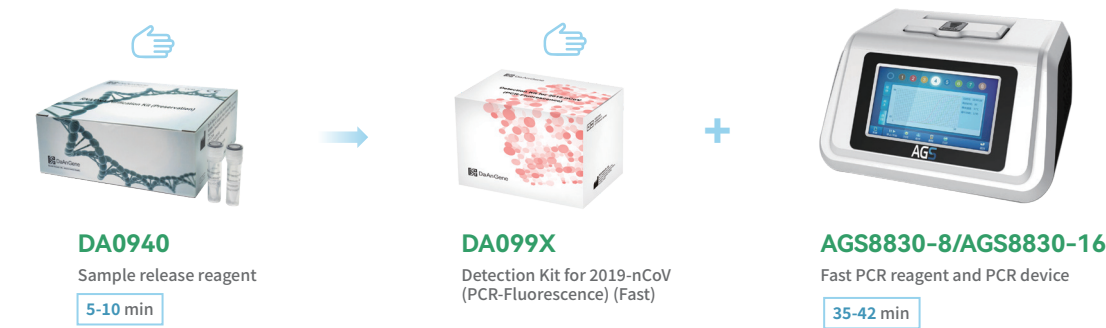
DA8030	Nucleic Acid Extraction Instrument (Model: Smart32) <small>(Throughput 32)</small>	NMPA, FSC, CE
DA8044	Automatic Nucleic Acid Extraction Instrument (Model: Stream SP96) <small>(Throughput 96)</small>	NMPA, FSC, CE
DA8045	Automatic Nucleic Acid Extraction Instrument (Model: Swift96) <small>(Throughput 96)</small>	NMPA, FSC, CE

Real-time PCR System

AGS4800	Real-time PCR Detection System <small>(Throughput 48/96/144)</small>	NMPA, FSC, CE
AGS8830	Real-time PCR Detection System <small>(Throughput 8/16)</small>	NMPA, FSC, CE

Dann Gene's Laboratory Solution

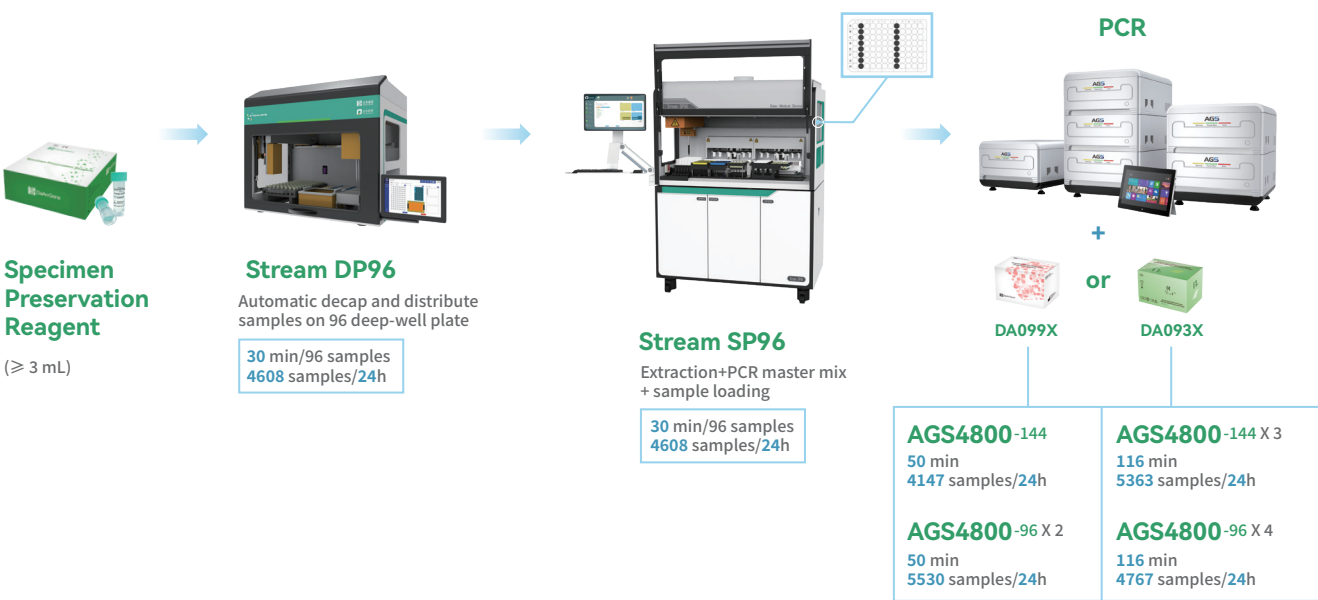
COVID-19 Solution-1



“To know the sample is **positive** or **negative** ? ” < 1 hour
Extraction-free

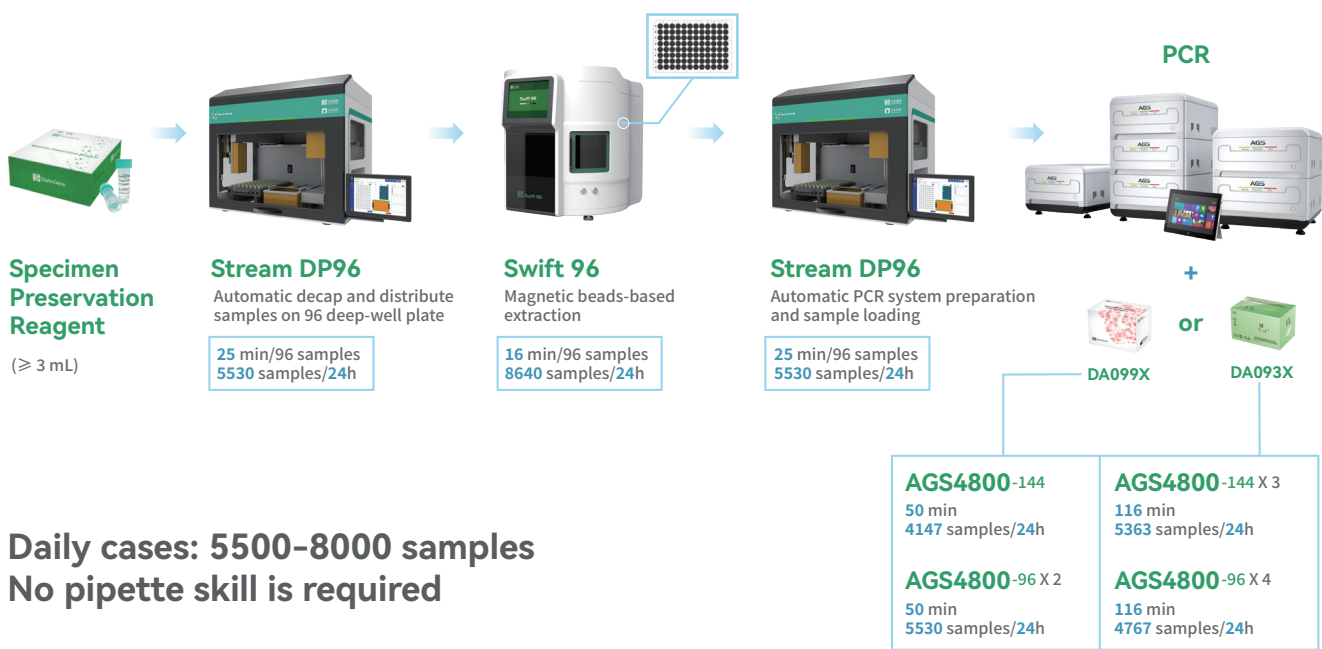
Manual Pipette Operation

COVID-19 Solution-2



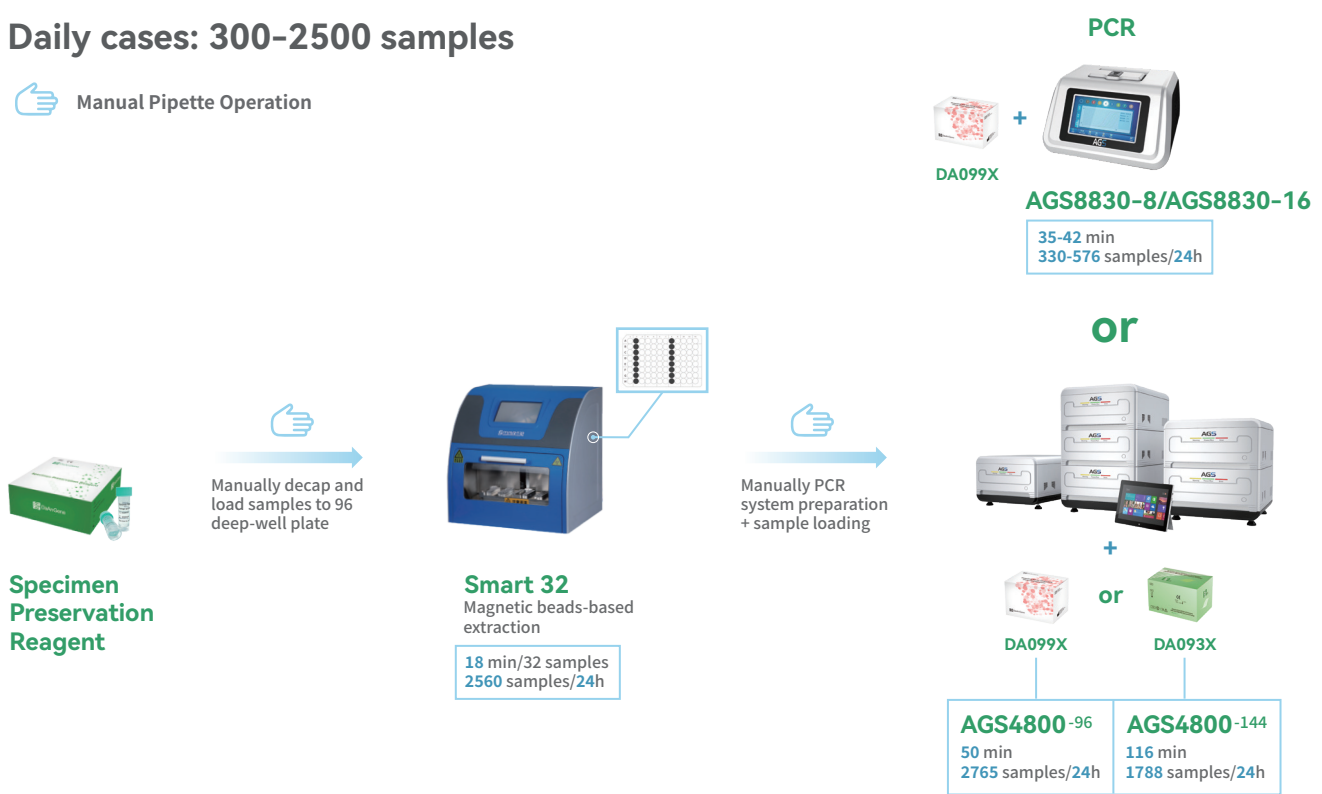
Daily cases: 4100-4600 samples
Longer walk-away time, no pipette skill is required

COVID-19 Solution-3



Daily cases: 5500-8000 samples
No pipette skill is required

COVID-19 Solution-4



Daily cases: 300-2500 samples

DA093X

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 *in vitro* qualitative detection of the ORF1ab and N genes of novel coronavirus (2019-nCoV) from throat swabs and sputum samples in pneumonia suspected cases of novel coronavirus infection, patients with suspected cluster cases, and other patients requiring diagnosis or differential diagnosis of novel coronavirus infection.

Features

- Dual targets detection: ORF1ab and N gene
- Endogenous internal control

Specification

Precision	CV<5%
Target	ORF1ab gene, N gene
Sample type	Throat Swab, Sputum
LOD	100 copies/mL
PCR reaction system	40 µL
Storage and shelf life	-20±5°C, 9 months
Compatible instrument	ABI 7500, LightCycler480, AGS4800, QuantStudio™5, SLAN-96P

Order Information

Description	Cat. No	Specification (Tests/Kit)
Detection Kit for 2019 Novel Coronavirus (2019-nCoV) RNA (PCR-Fluorescence Probing)	DA0930	Large package, 24 tests/kit
	DA0931	Large package, 48 tests/kit
	DA0932	Large package, 96 tests/kit
	DA0933	Large package, 480 tests/kit
	DA0934	Large package, 960 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

Target	ORF 1ab gene, N gene
Sample type	Throat Swab, Sputum
LOD	200 copies/mL
Storage and shelf life	-20±5°C, 9 months
Compatible instrument	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
	DA0993	Single tube, 24 tests/kit
	DA0994	Single tube, 48 tests/kit
	DA0995	Single tube, 96 tests/kit
	DA0996	Large package, 480 tests/kit
	DA0997	Large package, 960 tests/kit

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 gene in the oropharyngeal swab, nasal swab, saliva, and sputum specimens of suspected COVID-19 patients, clustering cases and others needing diagnosis or differential diagnosis for 2019-nCoV.

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

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)

Specification

Target	ORF1ab gene, N gene
Sample type	Oropharyngeal swab, nasal swab, saliva, and sputum specimens
LOD	200 copies/mL
Storage and shelf life	-20±5°C, 9 months
Compatible instrument	AGS8830, AGS4800, ABI 7500

Order Information

Description	Cat. No	Specification (Tests/Kit)
Detection Kit for 2019-nCoV (PCR-Fluorescence) (Saliva)	DA1070	Large package, 24 tests/kit
	DA1071	Large package, 48 tests/kit
	DA1072	Large package, 96 tests/kit
	DA1076	Large package, 480 tests/kit
	DA1077	Large package, 960 tests/kit

DA117X

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



Intended Use

This kit is intended for in vitro qualitative detection of 2019 Novel Coronavirus (2019-nCoV) N gene, E gene, and RDRP gene in the oropharyngeal swabs, nasopharyngeal swabs, 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

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

Order Information

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

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

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

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

DA122X

2019-nCoV Omicron Variant Detection Kit (PCR-Fluorescence)



Intended Use

This kit is used for the in vitro qualitative detection of 2019 novel coronavirus (2019-nCoV) Omicron variant in the oropharyngeal swabs, nasopharyngeal swabs and sputum specimens of suspected COVID-19 patients, clustering cases and others needing diagnosis or differential diagnosis for 2019-nCoV.

Features

- Targets: 3 mutation sites & 1 conserved gene
- Endogenous internal control
- UDG enzyme to control contamination in PCR

Specifications

Target	K417N, E484A, P681H, ORF1ab
Sample type	Oropharyngeal swabs, nasopharyngeal swabs, sputum
LOD	200 copies/mL
Storage and shelf life	-20±5°C, 12 months
Internal control	RNase P gene, effectively prevent false result
Compatible instrument	ABI7500, AGS4800

Order Information

Description	Cat. No	Specification(Tests/Kit)
2019-nCoV Omicron Variant Detection Kit (PCR-Fluorescence)	DA1220	Large package, 24 tests/kit
	DA1221	Large package, 48 tests/kit

DA0970

Specimen Preservation Reagent



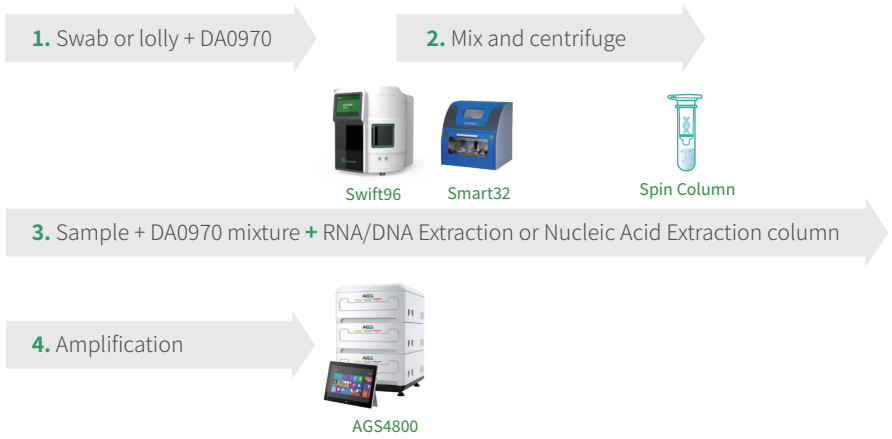
Intended Use

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

Procedure



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

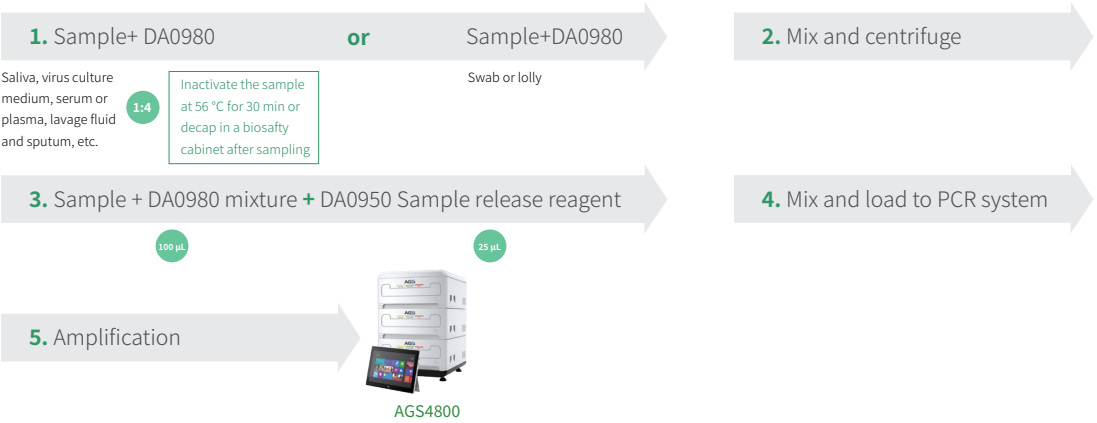
Intended Use

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

Procedure of Extraction-Free Solution



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 DA063X DA100X

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.



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Order Information

Description	Cat. No	Package	Compatible Instrument
Nucleic Acid Extraction Kit	DA0600	96 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96
	DA0601	20 tests/kit (Pre-packaged)	Smart 32, Stream SP96
	DA0602	32 tests/kit (Pre-packaged)	Smart 32, Stream SP96
	DA0603	96 tests/kit (Pre-packaged)	Swift 96
	DA0604	480 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96
Nucleic Acid Isolation or Purification Reagent	DA0621	96 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96
	DA0623	32 tests/kit (Pre-packaged)	Smart 32, Stream SP96
RNA/DNA Purification Kit (Magnetic Bead)	DA0630	20 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96
	DA0631	96 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96
	DA0632	20 tests/kit (Pre-packaged)	Smart 32, Stream SP96
RNA/DNA Extraction or Purification Kit	DA0633	32 tests/kit (Pre-packaged)	Smart 32, Stream SP96
	DA0640	20 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96
	DA0641	96 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96
Nucleic Acid Extraction Kit	DA0642	20 tests/kit (Pre-packaged)	Smart 32, Stream SP96
	DA0643	32 tests/kit (Pre-packaged)	Smart 32, Stream SP96
	DA1000	96 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96
	DA1001	20 tests/kit (Pre-packaged)	Smart 32, Swift 96
	DA1002	32 tests/kit (Pre-packaged)	Smart 32, Stream SP96
	DA1003	96 tests/kit (Pre-packaged)	Swift 96
	DA1004	480 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96

DA0591 DA103X

CE submission pending

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.



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Order Information

Description	Cat. No	Package
RNA/DNA Purification Kit (Spin Column)	DA0591	20 tests/kit
		48 tests/kit
Nucleic Acid Extraction or Purification Reagent (Spin Column)	DA103X	20 tests/kit
		48 tests/kit

DA094X

RNA/DNA Purification Kit (Preservation)

This kit is used for the collection and preservation of virus specimens. Combining the function of inactivation, lysis and nucleicacid extraction, it can handle the specimen from collecting to nucleic 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.



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Order Information

Description	Cat. No	Package
RNA/DNA Purification Kit (Preservation)	DA094X	400 μL/tube, 100 tubes/kit
		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
		7 mL/tube, 100 tubes/kit
		8 mL/tube, 100 tubes/kit

DA095X

RNA/DNA Purification Kit (Release)

This kit is used for extraction, enrichment, purification, etc. of nucleic acid. Mix the specimen with the nucleic acid purification kit at a ratio of 4: 1, after completely mixing and cracking, the nucleic acid DNA or RNA can be released from the specimen and directly used as a PCR template for amplification without heating or other nucleic acid extraction operations.

Features

- No need instrument, nucleic acid can be released directly, then can be used as PCR template.



CE

NMPA

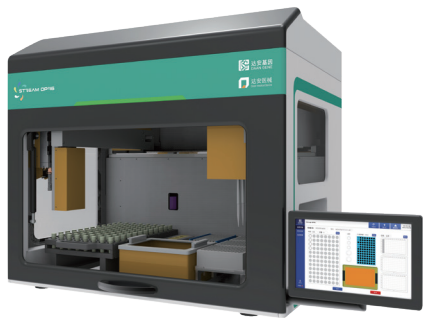
FSC

Order Information

Description	Cat. No	Package
RNA/DNA Purification Kit (Release)	DA0950	Large package, 1.2 mL/tube, 100 tubes/kit
	DA0951	Large package, 400 μL/tube, 100 tubes/kit
	DA0952	Pre-package, 25 μL/tube, 100 tubes/kit

Stream DP96

Sample Processing System (Model: DA8050)



- 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.

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Smart32

Nucleic Acid Extraction Instrument (Model: DA8030)



- 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.

CE NMPA FSC

Stream SP96

Automatic Nucleic Acid Extraction Instrument (Model: DA8044)



- Fully-automatic nucleic acid extraction and PCR reaction preparation.
- High-throughput: 96 samples can be extracted in 18 minutes.*
- High-precision liquid handing 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.

CE NMPA FSC

Swift96

Automatic Nucleic Acid Extraction Instrument (Model: DA8045)



- High-throughput and automated nucleic extraction adopting magnetic bead technology.
- Extract and purify nucleic acid 1-96 samples in 16 minutes.*
- Visualized interface, touch screen, editable program, easy to operate.
- Magnetic beads recovery rate≥98%.
- Anti-contamination: exhaust airflow circulation, UV light.

*Rapid Nucleic Acid Extraction Kit DA1003.

CE 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.

CE NMPA 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

CE NMPA FSC