

Solution for COVID-19 Diagnosis

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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 (submission pending)
DA107X	Detection Kit for 2019-nCoV (PCR-Fluorescence) (Saliva)	CE (Submission penaling)
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

DA060X	Nucleic Acid Extraction Kit	NMPA, FSC, CE
DA062X	Nucleic Acid Isolation or Purification Reagent	NMPA, FSC, CE
DA063X	RNA/DNA Purification Kit (Magnetic Bead)	NMPA, FSC, CE
DA100X	Nucleic Acid Extraction Kit	NMPA, FSC, CE
DA0591	RNA/DNA Purification Kit (Spin Column)	NMPA, FSC, CE
DA103X	Nucleic Acid Extraction or Purification Reagent (Spin Column)	NMPA, FSC, CE
DA0940	RNA/DNA Purification Kit (Preservation)	NMPA, FSC, CE
DA095X	RNA/DNA Purification Kit (Release)	NMPA, FSC, CE

Instruments

Sample Preparation System

DA8050	Sample Processing System (Model: Stream DP96)	NMPA, FSC, CE

Nucleic Acid Extraction System

DA8030	Nucleic Acid Extraction Instrument (Model: Smart32)	NMPA, FSC, CE
DA8044	Automatic Nucleic Acid Extraction Instrument (Model: Stream SP96)	NMPA, FSC, CE
DA8045	Automatic Nucleic Acid Extraction Instrument (Model: Swift96)	NMPA ESC CE

Real-time PCR System

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

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Dann Gene's Laboratory Solution

COVID-19 Solution-1

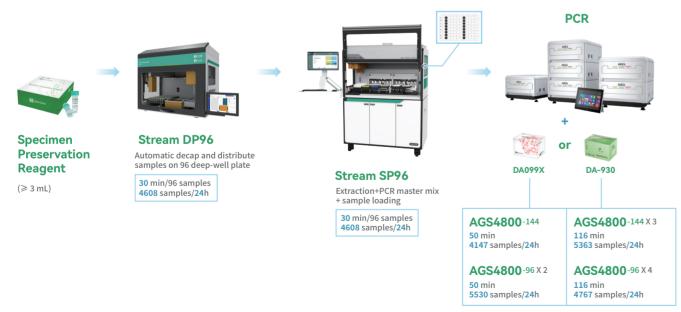


"To know the sample is positive or negative?" < 1 hour **Extraction-free**



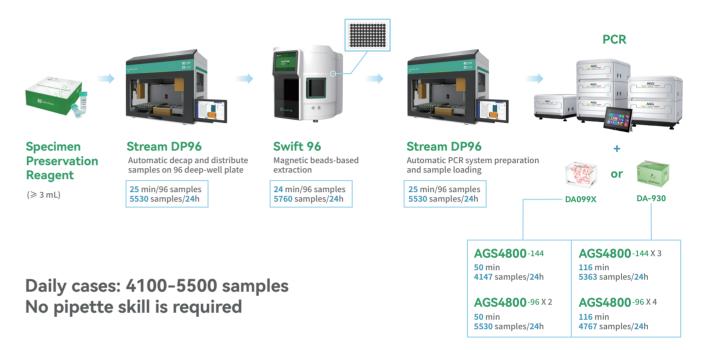
Manual Pipette Operation

COVID-19 Solution-2



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

COVID-19 Solution-3



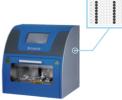
COVID-19 Solution-4



Manual Pipette Operation



Specimen Preservation Reagent



Manually PCR system preparation

+ sample loading

Smart 32 Magnetic beads-based

18 min/32 samples 2560 samples/24h



AGS8830-8/AGS8830-16 35-42 min 330-576 samples/24h



Daan Gene's Laboratory Solution | 4 3 | Daan Gene's Laboratory Solution

DA-930

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

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









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 (lota)
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

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

Order Information

Description	Cat. No	Specification (Tests/Kit)
Detection Kit for 2019 Novel		Large package, 24 tests/kit
Coronavirus (2019-nCoV) RNA (PCR-Fluorescence Probing)	DA-930	Large package, 48 tests/kit
(1 011 1 1 0 1 0 1 0 1 1 0 1 1 1 0 1 1 1 0 1		Large package, 96 tests/kit

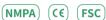
DA099X

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

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.

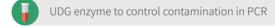




Features

Fast, 35 min to get results





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 (lota)
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	le type Throat Swab, Sputum	
LOD	500 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

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DA107X

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

35 min

 (ϵ)

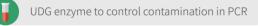
Intended Use

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







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 (lota)
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)
	DA1070	Large package, 24 tests/kit
Detection Kit for 2019-nCoV (PCR-Fluorescence)	DA1071	Large package, 48 tests/kit
	DA1072	Large package, 96 tests/kit
(Saliva)	DA1076	Large package, 480 tests/kit
	DA1077	Large package, 960 tests/kit

DA117X

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



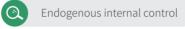
 (ϵ)

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 labled





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 (lota)
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	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
Secretion Metol 2013 floor (N/E/NDM Gene)	DA1171	Large package, 96 tests/kit

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DA104X

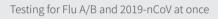
Detection Kit for Influenza A/B and 2019-nCoV (PCR-Fluorescence Probing)

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 CE







Endogenous internal control



High specificity, no cross-reaction with other similar pathogens

Specification

Technology		Multiplex PCR technology
	2019-nCoV	N gene, ORF1ab gene
Target	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 (title)	DA1041	Large package, 24 tests/kit
Influenza A/B and 2019-CoV	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.



 (ϵ)

Features



Endogenous internal control



UDG enzyme to control contamitation 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	DA1160	Large package, 48 tests/kit
(PCR-Fluorescence Probing)	DA1161	Large package, 96 tests/kit

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DA122X

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



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 for 2019-nCoV.



 (ϵ)

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	DA1220	Large package, 24 tests/kit
(PCR-Fluorescence)	DA1221	Large package, 48 tests/kit

DA0970

Specimen Preservation Reagent



(E) (NMPA) (FSC)

Intended Use

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

Features



Virus inactivation



Prevent RNA from degradation



Transportion and storage at room temperature

Procedure

1. Swab or lolly + DA0970

2. Mix and centrifuge







ft96 Smart32

Spin Columi

3. Sample + DA0970 mixture + RNA/DNA Extraction or Nucleic Acid Extraction column

4. Amplification



Order Information

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

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DA0980

Specimen Preservation Solution

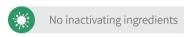


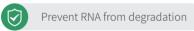
(E) (NMPA) (FSC)

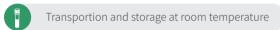
Intended Use

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

Features







Procedure of Extraction-Free Solution

1. Sample+ DA	A0980	or	Sample+DA0980
Saliva, virus culture medium, serum or plasma, lavage fluid and sputum, etc.	Inactivate the sample at 56 °C for 30 min or decap in a biosafty cabinet after sampling		Swab or lolly
3. Sample + D.	A0980 mixture + [DA0950 S	Sample release reagent
	00 µL		25 pt.
5. Amplification	on		n i
		A	AGS4800

2. Mix and centrifuge

4. Mix and load to PCR system

Order Information

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









Order Information

Description	Cat. No	Package	Compatible Instrument	Duration	
	DA0600	96 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96		
	DA0601	20 tests/kit (Pre-packaged)	Smart 32, Stream SP96		
Nucleic Acid Extraction Kit	DA0602	32 tests/kit (Pre-packaged)	Smart 32, Stream SP96	18 min/run	
	DA0603	96 tests/kit (Pre-packaged)	Swift 96		
	DA0604	480 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96		
Nucleic Acid Isolation or	DA0621	96 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96		
Purification Reagent	DA0623	32 tests/kit (Pre-packaged)	Smart 32, Stream SP96	55 min/run	
	DA0630	20 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96		
RNA/DNA Purification Kit	DA0631	96 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96		
(Magnetic Bead)	DA0632	20 tests/kit (Pre-packaged)	Smart 32, Stream SP96	35 min/run	
	DA0633	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		
Nucleic Acid Extraction Kit	DA1002	32 tests/kit (Pre-packaged)	Smart 32, Stream SP96	24 min/run	
	DA1003	96 tests/kit (Pre-packaged)	Swift 96		
	DA1004	480 tests/kit (Large package)	Smart 32, Stream SP96, Swift 96		

Nucleic Acid Extraction Kit | 14

DA0591 DA103X

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)	20 tests/kit		20 120 min (1 40 mm les)	
KNA/DNA Pullication Kit (Spin Column)	n) DA0591	48 tests/kit	30-120 min (1-48 samples)	
Nucleic Acid Extraction or Purification Reagent (Spin Column)	DA103X	20 tests/kit	5-30 min (1-48 samples)	
		48 tests/kit	5-50 min (1-40 samples)	

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 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.







Order Information

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









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

Nucleic Acid Extraction Kit | 16 15 | Nucleic Acid Extraction Kit

Steam 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.







(E) NMPA FSC

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.







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.









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 24 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.









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.









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









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