



Product Catalog

Molecular Biology Reagents and Kits

2020

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Enzymes

Product Name	Catalog #	Components	Description
Taq DNA Polymerase (5U/ul)	EN001	Taq DNA Polymerase. Anti-interference.	High fidelity. No activation step. Mainly used for general PCR.
CH Taq DNA Polymerase (5U/ul)	EN002	Chemically modified hot start polymerases. Anti-interference.	Good thermal stability. Thermal activation for 10 min, suitable for PCR and real time PCR.
AB-HS Taq DNA Polymerase (5U/ul)	EN003	Antibody-based hot start polymerases. Anti-interference.	Short activation time. Thermal activation for 3 min, suitable for PCR and real time PCR.
TTH DNA Polymerase (5U/ul)	EN004	TTH DNA Polymerase	With DNA polymerase activity and reverse transcription activity. Suitable for PCR amplification of DNA and one-step RT-PCR of RNA.
M-MLV (200U/ul)	EN006	Reverse transcriptase	High activity at 42°C-65°C. Suitable for synthesis of first-strand cDNA , primer extension , sequencing dsDNA, cDNA libraries, and RT-PCR.
hUDG (2U/ul)	EN007	Heat sensitive Uracil DNA glycosylase	Control of carry-over contamination in PCR. Active on ss and dsDNA.
RNase Inhibitor (40U/ul)	EN008	RNase Inhibitor	Inhibit RNA enzyme activity. Suitable for cDNA synthesis, In vitro translation.

Enzymes Mix

Product Name	Catalog #	Components	Description
RT-PCR Enzymes Mix	MH001	Master Mix contains M-MLV reverse transcriptase and AB-HS Taq DNA Polymerase	Suitable for RNA sample amplification. 3min initial denaturation step is required to inactivate the antibody and initiate hot-start PCR.
RT-PCR Enzymes Mix	MH002	Master Mix contains M-MLV reverse transcriptase and CH-HS Taq DNA Polymerase	Suitable for RNA sample amplification. Thermal activation for 10 min.

qPCR Mix & RT-qPCR Mixes

Product Name	Catalog #	Components	Description
AB Probe qPCR Master Mix	MX001	Master mix contains AB-HS Taq DNA Polymerase and dNTPs in a buffer.	Suitable for TaqMan probe. For singleplex or multiplex reactions. Ready-to-use 2X master mix.
AB Probe qPCR Master Mix	MX002	Master mix contains AB-HS Taq DNA Polymerase, dNTPs and hUDG in a buffer.	Prevent non-specific amplification and pollution. Suitable for TaqMan probe. For singleplex or multiplex reactions. Ready-to-use 2X master mix.

Product Name	Catalog #	Components	Description
CH Probe qPCR Master Mix	MX003	Master mix contains CH-HS Taq DNA Polymerase and dNTPs in a buffer.	Suitable for TaqMan probe. For singleplex or multiplex reactions. Ready-to-use 2X master mix.
CH Probe qPCR Master Mix	MX004	Master mix contains CH-HS Taq DNA Polymerase and hUDG in a buffer.	Prevent non-specific amplification and pollution. Suitable for TaqMan probe. For singleplex or multiplex reactions. Ready-to-use 2X master mix.
AB Probe One-Step RT-qPCR Pre-Mix	MX006	Pre-Mix contains enzymes mix and buffer mix in separate tubes. Enzymes mix contains AB-HS Taq DNA Polymerase and M-MLV. Buffer mix contains RNase Inhibitor and dNTPs.	High stability. Fast and convenient single tube reaction. Suitable for various RNA templates. Works in singleplex, multiplex, and with exogenous or endogenous internal controls.
CH Probe One-Step RT-qPCR Pre-Mix	MX008	Pre-Mix contains enzymes mix and buffer mix in separate tubes. Enzymes mix contains CH-HS Taq DNA Polymerase and M-MLV. Buffer mix contains RNase Inhibitor and dNTPs.	High stability. Fast and convenient single tube reaction. Suitable for various RNA templates. Works in singleplex, multiplex, and with exogenous or endogenous internal controls.

Viral DNA / RNA Extraction Kits

Product Name	Catalog #	Description
Viral DNA / RNA Extraction Kit	EE001	Viral Total Nucleic Acid Purification Kit Magnetic bead-based purification
AIVD-EX96 Automatic nucleic acid extractor	EX32	Automatic magnetic bead nucleic acid extractor
AIVD-EX96 Automatic nucleic acid extractor	EX96	Automatic magnetic bead nucleic acid extractor

COVID-19 Nucleic Acid Detection Kits

Product Name	Catalog #	Components	Description
COVID-19 Triple Nucleic Acid Detection Kit(RT-qPCR)	KN001	Master mix, Primers/Probes, Positive Control, Negative Extraction Control,	Qualitative detection of ORF1ab gene, N gene and endogenous genes GAPDH. One-step reaction, results in 1.5 hour. The minimum detection baseline is 500 copies/mL.
COVID-19 Dual Nucleic Acid Detection Kit(RT-qPCR)	KN002	Master mix, Primers/Probes, Positive Control, Negative Extraction Control,	Qualitative detection of ORF1ab gene and N gene . One-step reaction, results in 1.5 hour. The minimum detection baseline is 500 copies/mL.

Product Name	Catalog #	Components	Description
COVID-19 Triple Nucleic Acid Detection Kit (RT-qPCR)	KN003	Master mix, Primers/Probes, Positive Control, Negative Extraction Control,	Qualitative detection of ORF1ab gene, N gene and E gene. One-step reaction, results in 1.5 hour. The minimum detection baseline is 500 copies/mL.
COVID-19 Fourfold Nucleic Acid Detection Kit (RT-qPCR)	KN004	Master mix, Primers/Probes, Positive Control, Negative Extraction Control,	Qualitative detection of ORF1ab gene, N gene, E gene and endogenous genes GAPDH. One-step reaction, results in 1.5 hour. The minimum detection baseline is 500 copies/mL.

Others

Product Name	Catalog #	Components	Description
Taq DNA Polymerase antibody	AT001	Hot-start PCR	Specifically modify the Taq DNA Polymerase. Inhibits the polymerase activity and prevent non-specific amplification derived.
dATP	AT002	Nucleotides	Provided at 100mM in water at pH 7.5
dCTP	AT003	Nucleotides	Provided at 100mM in water at pH 7.5
dGTP	AT004	Nucleotides	Provided at 100mM in water at pH 7.5

Product Name	Catalog #	Components	Description
dTTP	AT005	Nucleotides	Provided at 100mM in water at pH 7.5
dUTP	AT007	Nucleotides	Provided at 100mM in water at pH 7.5
dNTP Mix	AT006	Mix contains dATP, dCTP, dGTP and dTTP	Ready to Use Solution of Deoxynucleotide Triphosphates. Highly pure (>99% triphosphate), 10mM each nucleotide in water.

Primers and Probes

Product Name	Catalog #	Components	Description
Primer	PR001	None tag	PAGE purification
	PN001	FAM	HPLC purification
Probe	PN002	VIC	HPLC purification
	PN003	ROX	HPLC purification
	PN004	CY5	HPLC purification
	PN005	HEX	HPLC purification
	PN006	CY3	HPLC purification

Services

If you are looking for a Solution and do not find what you need in our Catalog, please contact us!

OEM service

All products listed in our catalog are available for private labeling and OEM. AIVD cutting-edge manufacturing facility houses fully equipped R&D, production and quality control laboratories.

Our team of dedicated scientists works closely with every OEM partner to provide highly customized solutions and define the ideal manufacturing specifications to meet every partner's unique needs.

We offer a board range of custom solutions, which include custom assay & product development, small to large scale production, bulk and uncut sheets supply of catalogue and custom-made reagents, packaging and technical support.

Primers and Probes Design & Synthesis service

AIVD offers a one-stop custom qPCR primer and Probes design & synthesis service, aiming to save time, effort, and money from preventing complications or even failures in qPCR experiments. Well-designed primers and probe are one of the key requirements for a successful qPCR.

AIVD is able to design qPCR primers with high specificity and minimizing the chance of primer dimer formation. In addition, using appropriate software and virtual simulation, TaqMan probes can be designed with minimal predicted complication of secondary structure at the binding sequence region on the template, thus ensuring an effective binding and ultimately an efficient hydrolysis of the probe.

Customization & New Product Development

AIVD could develop and manufacture a Customized Solution or Kit specifically for your project needs.

Our complete portfolio of reagents can be customized to meet your individual assay performance specifications, including NGS library preparation, PCR & RT-PCR, qPCR & RT-qPCR reagents and enzymes.

We could adapt the formulation, documentation or size of our catalogue products or **create a new solution** to accommodate your unique needs.

Custom options for PCR reagents include custom development and production of:

- Primer and Probes Design & synthesis service
- SNP genotyping reagents;
- Pharmacogenomics solutions;
- Microbial pathogen detection reagents;
- Gene mutation/deletion detection reagents;
- Early cancer detection reagents;
- Rapid nucleic acid detection reagents

From early stage development to manufacturing and delivery, all our processes are strictly controlled to ensure the highest quality of our products.

Out-Licensing and Technical Transfer

Looking forward to expand your product portfolio and save time, money and resources on research and development?

AIVD technologies are available for out-licensing and full or partial technical transfer, including a broad range of molecular biology workflows, protein expression and conjugation technologies, product formulation and etc.

Technical Solutions and Support

We offer a board range of technical solutions, including consultations and technical support to help make design and formulation decisions, scientific expertise that matches your requirements.

Core Technical Solutions:

- Selection of raw materials
- Production process optimization
- Conjugation process optimization
- Workflow development
- Workflow troubleshooting
- Personnel training

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