



Product Catalogue

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	High fidelity. No activation step. Mainly used for general PCR.
CH-HS Taq DNA Polymerase (5U/ul)	EN002	Chemically modified hot start polymerases	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	Thermal activation for 3 min, suitable for PCR and real time PCR
TTH DNA Polymerase (5U/ul)	EN004	TTH DNA Polymerase	DNA polymerase activity and reverse transcription activity.
CH-HS TTH DNA Polymerase (5U/ul)	EN005	Chemically modified TTH DNA Polymerase	Thermal activation for 10 min. It also has DNA polymerase activity and reverse transcription activity.
M-MLV (200U/ul)	EN006	Reverse transcriptase	Reverse transcription (cDNA Synthesis), incubate at 42°C-65°C, cDNA Synthesis
hUDG (1U/ul)	EN007	Heat sensitive UDG enzyme	Prevent non-specific amplification and pollution
RNase Inhibitor (40U/ul)	EN008	RNase Inhibitor	Inhibit RNA enzyme activity and prevent RNA degradation

Enzymes Mix

Product Name	Catalog #	Components	Description
M-MLV+AB Taq	MH001	Master Mix	<p>Includes M-MLV reverse transcriptase and AB-HS Taq DNA Polymerase.</p> <p>Suitable for RNA sample amplification.</p> <p>3min initial denaturation step is required to inactivate the antibody and initiate hot-start PCR</p>
M-MLV+ CH Taq	MH002	Master Mix	<p>Includes M-MLV reverse transcriptase and CH-HS Taq DNA Polymerase.</p> <p>Suitable for the amplification of RNA samples, thermal activation for 10 min</p>

qPCR Mix & RT-qPCR Mixes

Product Name	Catalog #	Components	Description
2×Probe AB Taq qPCR Mix	MX001	Master mix contains AB-HS Taq DNA Polymerase	Thermal activation for 3 min. Suitable for DNA amplification
2×Probe AB Taq qPCR Mix UDG	MX002	Enzyme mix contains AB-HS Taq DNA Polymerase and hUDG	With hUDG, offers effective prevention of non-specific amplification and pollution
2×Probe CH Taq qPCR Mix	MX003	Master mix contains CH-HS Taq DNA Polymerase	Thermal activation for 10 min. Suitable for DNA amplification
2×Probe CH Taq qPCR Mix UDG	MX004	Enzyme mix contains CH-HS Taq DNA Polymerase and hUDG	Contains hUDG, offers effective prevention of non-specific amplification and pollution
2×Probe AB Taq One-Step RT-qPCR Mix	MX005	Master mix contains AB-HS Taq DNA Polymerase	Enzyme mixed with reaction solution, amplified directly with RNA sample, short thermal activation time just for 3 min
2×Probe AB Taq One-Step RT-qPCR Pre-Mix	MX006	Pre-Mix contains AB-HS Taq DNA Polymerase	The enzyme was separated from the reaction solution, stable and heat excited for 3min
2×Probe CH Taq One-Step RT-qPCR Mix	MX007	Master mix contains CH-HS Taq DNA Polymerase	Enzyme mixed with reaction solution, amplified directly with RNA sample, thermal activation for 10 min
2×Probe CH Taq One-Step RT-qPCR Pre-Mix	MX008	Pre-Mix contains CH-HS Taq DNA Polymerase	The enzyme was separated from the reaction solution, stable and heat excited for 10min

Viral DNA / RNA Extraction Kits

Product Name	Catalog #	Description
Viral DNA / RNA Extraction Kit	EE001	Viral Total Nucleic Acid Purification Kit
Viral RNA Extraction Kit	EE002	Viral RNA Purification Kit

COVID-19 Nucleic Acid Detection Kits

Product Name	Catalog #	Description
COVID-19 OFR1ab/N gene(Contains endogenous genes)Triple Nucleic Acid Detection Kit(RT-qPCR)	KN001	Contains endogenous genes,high specificity,high accuracy
COVID-19 OFR1ab/N gene Dual Nucleic Acid Detection Kit(RT-qPCR)	KN002	Simple operation,high specificity,short detection time
COVID-19 OFR1ab/N/E gene Triple Nucleic Acid Detection Kit(RT-qPCR)	KN003	Simple operation,high specificity,short detection time
COVID-19 OFR1ab/N/E gene(Contains endogenous genes)Fourfold Nucleic Acid Detection Kit (RT-qPCR)	KN004	Contains endogenous genes,high specificity,high accuracy

Others

Product Name	Catalog #	Components	Description
Taq DNA Polymerase antibody	AT001	Hot-start PCR	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
dTTP	AT005	Nucleotides	Provided at 100mM in water at pH 7.5
dNTP Mix	AT006	Ready to Use Solution of Deoxynucleotide Triphosphates	Highly pure (>99% triphosphate), 10mM each nucleotide in water, Reduce pipetting steps by adding nucleotides as a mix
Custom Made Probes & Primers	AT007	qPCR	The length is within 35 bases, PAGE or 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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