

premium research tools since 2013

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GET LYO-READY WITH HIGHQU

Lyophilization-ready enzymes & mixes

LYO-READY 1 Step RT-qPCR Kits for your RT-qPCR-based assays

- Glycerol-free, lyophilization-ready formulation of robust 4X qPCR mix for high sample volume input
- Highly concentrated blend of Reverse transcriptase and RNase Inhibitor for lyophilization workflows
- Detects <5 RNA copies, tested for Sars-CoV-2 detection
- Reverse transcription and qPCR in one tube
- Ideal for multiplex reactions and high throughput assays
- Direct RT-qPCR without RNA extraction

#QOP070LR - Lyo-Ready 4X 1Step RT qPCR Probe Kits
2000 / 10 000 / 100 000 reactions

LYO-READY Hot Start PCR Enzyme for your PCR-based assays

- Concentrated Taq optimized for lyophilization ensuring minimal glycerol and detergent concentration in lyophilization mixtures
- Special Protein Blend enables the hot start function of Taq for low copy number target detection
- High yields under standard and fast cycling conditions
- Robust amplification of GC-rich templates

#HSE010LR - Lyo-Ready Taq Polymerase, 250 u/μl
supplied with Lyo-Ready HS Protein Blend

Optical Genome Mapping as a Diagnostic Tool in Pediatric Acute Myeloid Leukemia *Cancers, 2022*

Validation of Newly Detected SVs by Long-Distance Touchdown PCR and Sequencing: ...Primer walking was used to amplify the breakpoint. The identified breakpoints were re-confirmed by a breakpoint-spanning PCR using the **ALLin™ HS Red Taq Master Mix** (highQu GmbH, Kraichtal, Germany)...

Development of the first PVM TaqMan® primer set and a one-step real-time multiplex DiRT-PCR for the detection of PLRV, PVY, PVM, PVS, PVA and PVX in potato tuber sap *The European Journal of Plant Pathology, 2022*

We extended the reverse transcription in (MV) to 1 h and changed the reverse transcriptase from SuperScript®III (Thermo Fisher Scientific) to **HighScriber™ Reverse Transcriptase** (HighQu...).

Diversity of Streptomyces spp. from mangrove forest of Sarawak (Malaysia) and screening of their antioxidant and cytotoxic activities *Nature Scientific Reports, 2019*

Genomic DNA extraction was performed...PCR amplification of 16S rRNA gene was carried out in a final volume of 20 μL using TurboCycler 2... based on protocol adapted from Lee et al. 65, with **highQu Taq DNA polymerase** (Kraichtal, Germany)

Metabolic engineering of Corynebacterium glutamicum for de novo production of 3-hydroxycadaverine *Current Research in Biotechnology, 2022*

ALLin HiFi DNA Polymerase (HighQu, Kraichtal, Germany) was used to amplify DNA sequences with plasmid or genomic DNA as template. The oligonucleotides which were used as primers in this study are...

LYO-READY Reverse Transcriptase and RNase Inhibitor for your RNA-detection-based assays

- Glycerol-free, lyophilization-ready formulation of robust enzyme blend
- HighScriber™ Reverse Transcriptase for the cDNA synthesis from complex templates at up to 55°C
- SecurIN™ Advanced RNase Inhibitor available in big volumes for an efficient RNase inhibition up to 60°C
- Flexible volumes of RT/inhibitor enzyme blends

#QOP070LR - Lyo-Ready 4X 1Step RT qPCR Probe Kits
a single component of the kit, the RT7 Mix is available

LYO-READY qPCR Master Mixes for your qPCR-based assays

- Glycerol-free, lyophilization-ready formulation of robust 4X qPCR mix for high sample volume input
- Universal mix - both standard and fast cycling, all probe qPCR assays, GC or AT rich templates
- Excellent for multiplexing and high throughput
- Rapid extension, early Ct
- Direct qPCR without DNA extraction

#QPP070LR - Lyo-Ready ORA™ qPCR Probe Mix, 4X
2000 / 10 000 / 100 000 reactions

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Why highQu?

- Professionally simple, easy-to-use, fast protocols
- ALLin™ - all-included kit formulations
- Scientific track record since 2013
- Recognized as partner with unique add-on services
- Robust performance allowing to save time and money
- Produced under stringent quality requirements

highQu OEM Portfolio

One-step RT qPCR

- LYO-READY 4X 1Step RT-qPCR Probe Kits
- AIR-DRY 4X 1Step RT qPCR Probe Mix
- 4X 1Step RT qPCR Kits in liquid format

Reverse Transcription

- LYO-READY Reverse Transcriptase & RNase Inhibitor
- HighScriber™ Reverse Transcriptase
- SecurIN™ Advanced RNase Inhibitor

qPCR

- LYO-READY qPCR Probe Mixes
- ORA™ qPCR Probe Mixes

Tools for NA isolation

- Proteinase K MGB Solution
- Carrier RNA for precipitation of diluted NA samples

PCR

- LYO-READY Hot Start Taq Polymerase
- ALLin™ Hot Start Taq Polymerase
- dNTP Mixes and Sets

LAMP & isothermal amplification

- High concentration phi29 DNA Polymerase
- Hot Start Bst Polymerase and Mixes
- ALLin™ Isothermal DNA Amplification Kit
- ALLin™ Isothermal 1Step RNA Amplification Kit

AirDry 4X 1Step RT qPCR Mix

- Air dryable, single-tube format 1Step RT qPCR Probe Mix
- qPCR mix blended with Reverse transcriptase and RNase Inhibitor
- Fast, oven drying procedure for ambient storage of kits
- Add primers, probes, oven-dry in minutes, and reconstitute it with the sample solution
- Ideal for multiplex reactions, universal for RNA or DNA detection

Format	Liquid 4X 1Step RT qPCR Kit	Lyo-ready 4X 1Step RT qPCR Kit	AirDry 4X 1Step RT qPCR Mix
What to do?	Develop liquid probe-based RT qPCR kits for cold chain shipment	Develop dry-format probe-based RT qPCR kits for ambient temperature shipment and storage	
Performance	<ul style="list-style-type: none"> • Detects <5 copies of RNA or DNA targets in fast workflow • Stable and robust on crude and complex samples • Excellent for multiplex reactions 		
What is supplied	Kits include 2 classical components: qPCR mix and RT mix	Kit Include 2 glycerol-free components with excipients: qPCR mix and RT mix	Single glycerol-free component with excipients: blended qPCR and RT mix
Advantages over other formats	<ul style="list-style-type: none"> ✓ Ready to use for cold-shipped kits ✓ Excellent for evaluation, R&D needs ✓ No need to optimize drying conditions ✓ No need for special drying equipment 	<ul style="list-style-type: none"> ✓ Excellent for ambient t.-stable kits ✓ Produce visible pellet/cakes ✓ Easy reconstitution of pellets ✓ Flexible to lyophilize different volumes 	<ul style="list-style-type: none"> ✓ Excellent for ambient t.-stable kits ✓ Simple, just air-dry in convection oven ✓ Fast, air-drying takes 60-90 minutes ✓ More economical than lyophilization
What to consider for this format	<ul style="list-style-type: none"> • Cold-chain shipment and refrigerated storage is not environmentally friendly 	<ul style="list-style-type: none"> • Requires expensive equipment • Lyophilization may take several (5) days • Requires time and resources to optimize lyophilization, reconstitution and post reconstitution performance 	<ul style="list-style-type: none"> • The pellet is gel-like, difficult to monitor the reconstitution • Works well only with small volume <10 µl • Requires time and resources to optimize drying, reconstitution and post reconstitution performance

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