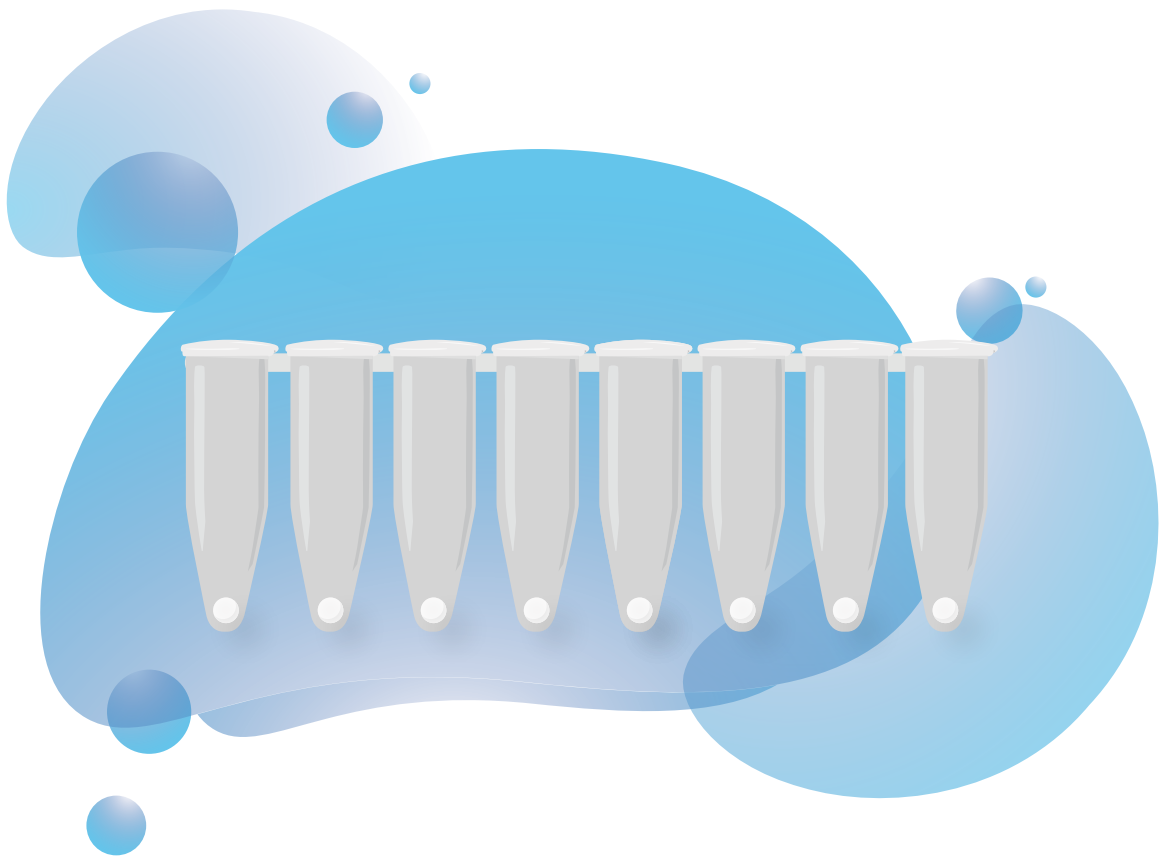


Lyophilized & LyoReady Premix



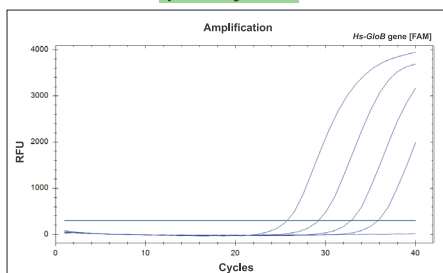
Simplify Assay Setup and Workflow

Lyophilized Reagents for NA Amplification

The Nanohelix's **lyophilized reagents** include RNA/DNA polymerase, dNTPs, salts, and other components. They are available in cake or bead format, allowing for ambient/room temperature shipping and storage prior to use. Simply add your primer/probe, template, and DW, and then you can see almost instantaneous rehydration of the dried material.

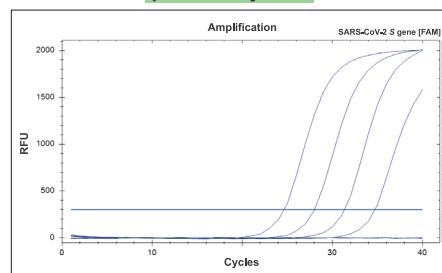
- Ready-to-use formulation
- Simplify assay setup and workflow
- Long-term stability and storage
- Simplify logistics and reduce cost
- Minimize sample contamination
- Storage and shelf life: Minimum one year at 25 °C
- Stability tests are performed regularly to ensure performance

qPCR Lyo-Dot



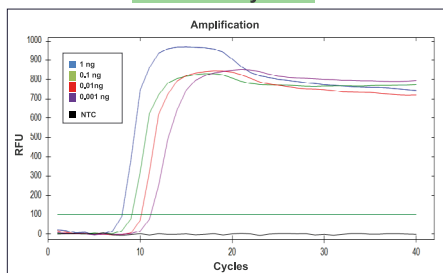
Template: Human genomic DNA (30, 3, 0.3, 0.03 ng)
Target gene & Probe label: *Hs-GloB* gene(FAM)
Instrument: CFX96(Bio-Rad)

qRT-PCR Lyo-Dot



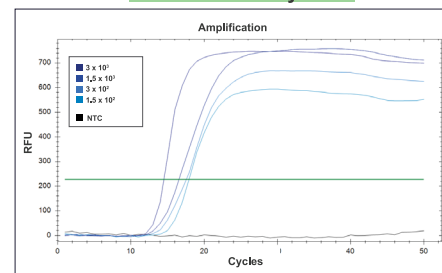
Template: SARS-CoV-2 viral RNA (3×10^4 , 3×10^3 , 3×10^2 , 3×10^1 copies)
Target gene & Probe label: S gene(FAM)
Instrument: CFX96(Bio-Rad)

FastLAMP Lyo-Dot



Template: Lambda DNA (1, 0.1, 0.01, 0.001 ng)
Intercalating dye: 0.2X EvaGreen
Instrument: CFX96(Bio-Rad)

Fast RT-LAMP Lyo-Dot



Template: SARS-CoV-2 viral RNA (3×10^3 , 1.5×10^3 , 3×10^2 , 1.5×10^2 copies)
Target gene: *ORF8* / **Intercalating dye:** 0.2X EvaGreen
Instrument: CFX96(Bio-Rad)



HelixAmp™ LyoReady Premix

- Ready for lyophilization
- Glycerol-free mix containing enzymes, buffer, dNTP, MgCl₂ and excipients
- Add primers/probes and lyophilize
- High performance and reproducible
- Suitable for qPCR, qRT-PCR, LAMP and RT-LAMP

An advanced lyophilization-ready master mix revolutionizing molecular diagnostic tests.

LyoReady Premix is designed for the evolving field of lyophilization in molecular diagnostics. This glycerol-free and excipient-enhanced formulation is tailored for the customer's creating lyophilized versions of qPCR, qRT-PCR, LAMP, and RT-LAMP master mixes. The lyophilized molecular diagnostic mixes can be stored and transported at ambient temperature and are ideal for high-throughput, automated platforms or microfluidic systems with rapid rehydration requirements.

The specialized excipients in **LyoReady Premix** safeguard enzymes during lyophilization, enabling fast rehydration and reactivation without compromising post-rehydration performance. Options with UDG and dUTP are available for effective prevention of carryover contamination.

Unlike traditional lyophilization processes with lengthy optimization phases, **LyoReady Premix** streamlines the transition to lyophilized assays. This ready-to-use, one-tube solution eliminates the need for extensive development efforts. Simply mix with primers and probes for direct lyophilization. Choose Nanohelix's **LyoReady Premix** for a streamlined, sustainable, high-performance solution in the lyophilization of your molecular diagnostics.

Ordering Information

Lyophilized Reagents

Real-Time PCR/RT-PCR

Product	Size	Cat. No.
RealHelix™ qPCR Lyo-Dot [Probe], 8-strip tube type	96 rxns	LDFQP-B96
RealHelix™ qPCR Lyo-Cake [Probe], 8-strip tube type	96 rxns	LDFQP-C96
RealHelix™ qPCR Lyo-Dot [Probe] [UDG System]	96 rxns	LDFQPU-B96
RealHelix™ qPCR Lyo-Cake [Probe] [UDG System]	96 rxns	LDFQPU-C96

Product	Size	Cat. No.
RealHelix™ qRT-PCR Lyo-Dot [Probe], 8-strip tube type	96 rxns	LDFQR-B96
RealHelix™ qRT-PCR Lyo-Cake [Probe], 8-strip tube type	96 rxns	LDFQR-C96
RealHelix™ qPCR Lyo-Dot [Probe] [UDG System]	96 rxns	LDFQRU-B96
RealHelix™ qPCR Lyo-Cake [Probe] [UDG System]	96 rxns	LDFQRU-C96

FastLAMP/RT-LAMP

Product	Size	Cat. No.
HelixAmp™ FastLAMP Lyo-Dot, 8-strip tube type	96 rxns	LFLP-B96
HelixAmp™ FastLAMP Lyo-Cake, 8-strip tube type	96 rxns	LFLP-C96

Product	Size	Cat. No.
HelixAmp™ Fast RT-LAMP Lyo-Dot, 8-strip tube type	96 rxns	LFRLP-B96
HelixAmp™ Fast RT-LAMP Lyo-Cake, 8-strip tube type	96 rxns	LFRLP-C96

LyoReady Premix

Real-Time PCR/RT-PCR

	Size	Cat. No.
RealHelix™ qPCR LyoReady Premix [Probe]	1 ml	SDFQP-1ML
	10 ml	SDFQP-10ML
	100 ml	SDFQP-100ML
RealHelix™ qPCR LyoReady Premix [Probe] [UDG System]	1 ml	SDFQPU-1ML
	10 ml	SDFQPU-10ML
	100 ml	SDFQPU-100ML
RealHelix™ qRT-PCR LyoReady Premix [Probe]	1 ml	SDFQR-1ML
	10 ml	SDFQR-10ML
	100 ml	SDFQR-100ML
RealHelix™ qRT-PCR LyoReady Premix [Probe] [UDG System]	1 ml	SDFQRU-1ML
	10 ml	SDFQRU-10ML
	100 ml	SDFQRU-100ML

Bulk Product

	Size	Cat. No.
RealHelix™ qPCR LyoReady Premix [Probe], Bulk	Custom	BSDFP
RealHelix™ qPCR LyoReady Premix [Probe] [UDG System], Bulk	Custom	BSDFQPU
RealHelix™ qRT-PCR LyoReady Premix [Probe], Bulk	Custom	BSDFQR
RealHelix™ qRT-PCR LyoReady Premix [Probe] [UDG System], Bulk	Custom	BSDFQPR

FastLAMP/RT-LAMP

	Size	Cat. No.
HelixAmp™ FastLAMP LyoReady Premix	1 ml	SFLP-1ML
	10 ml	SFLP-10ML
	100 ml	SFLP-100ML
HelixAmp™ Fast RT-LAMP LyoReady Premix	1 ml	SFRLP-1ML
	10 ml	SFRLP-10ML
	100 ml	SFRLP-100ML

Bulk Product

	Size	Cat. No.
HelixAmp™ FastLAMP LyoReady Premix, Bulk	Custom	BSFLP
HelixAmp™ Fast RT-LAMP LyoReady Premix, Bulk	Custom	BSFRLP



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