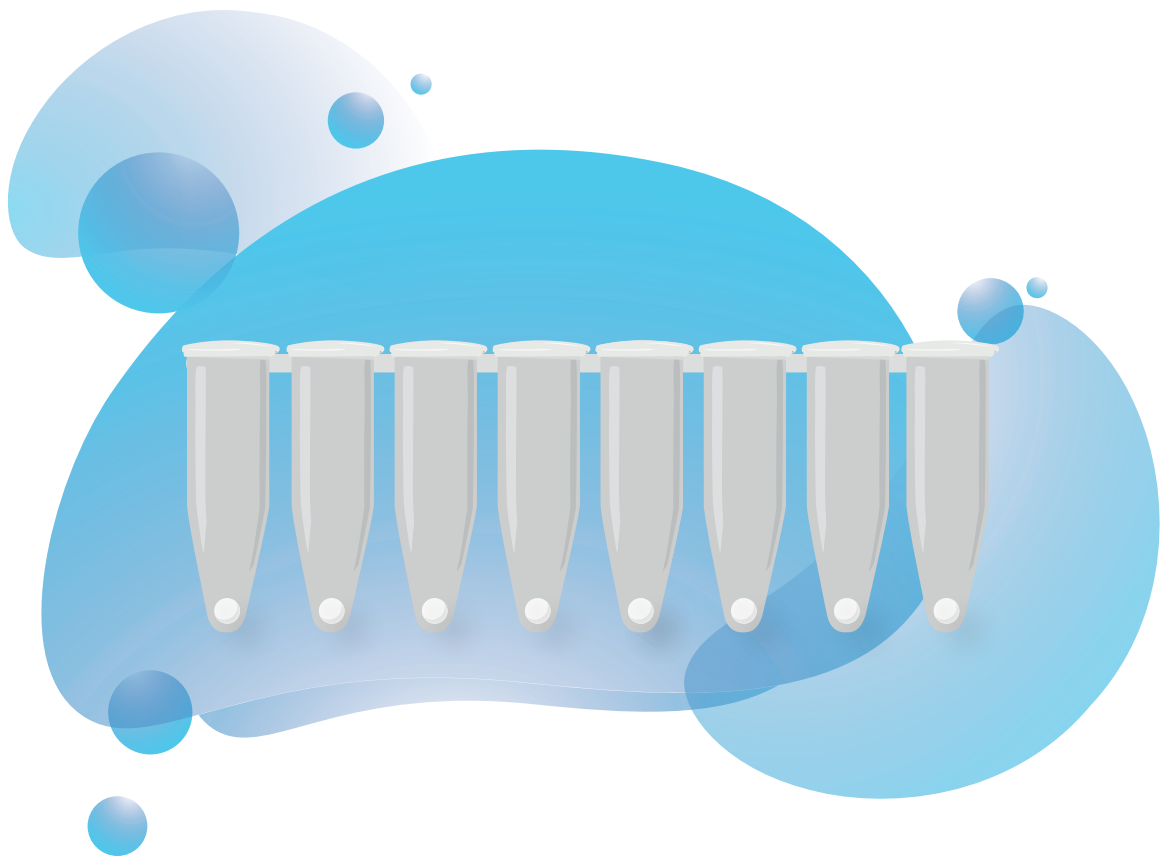


Lyophilized & LyoReady Premix



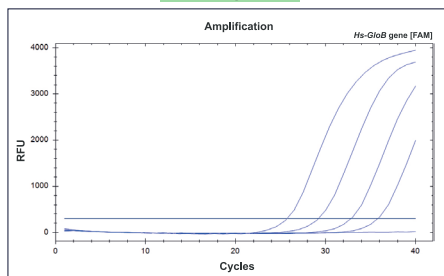
Simplify Assay Setup and Workflow

Lyophilized Reagents for NA Amplification

The Nanohelix's **lyophilized reagents** are freeze-dried master mixes including 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. Versions for qPCR, qRT-PCR, LAMP and RT-LAMP in bead(Lyo-Dot) or cake(Lyo-Cake) formats are available.

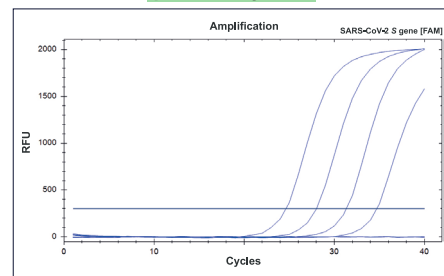
- Ready-to-use formulation
- Simplify assay setup and workflow
- Simplify logistics and reduce cost
- Minimize sample contamination
- Storage and shelf life: 6 months at room temperature / 12 months at 4°C

qPCR Lyo-Dot



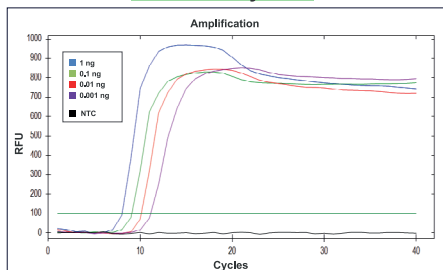
Template: Human genomic DNA(30, 3, 0.3, 0.03 ng)
Target gene & Probe label: *Hs-Glob* gene(FAM)
Instrument: CFX96(Bio-Rad)

qRT-PCR Lyo-Dot



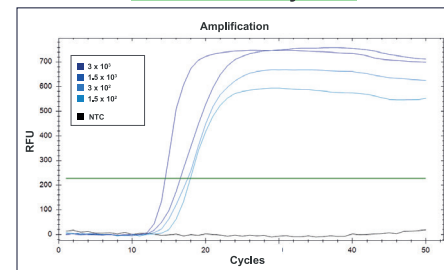
Template: SARS-CoV-2 viral RNA(3×10^4 , 3×10^3 , 3×10^2 , 3×10^1 copies)
Target gene & Probe label: S gene(FAM)
Instrument: CFX96(Bio-Rad)

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 / Intercalating dye: *ORF8* / 0.2X EvaGreen
Instrument: CFX96(Bio-Rad)

RealHelix™ LyoReady Premix

- Ready for lyophilization
- Glycerol-free mix containing enzymes, buffer, dNTP, MgCl₂ and excipients
- Simply add primers/probes and lyophilize
- High performance and reproducible
- Versions for qPCR, qRT-PCR, LAMP and RT-LAMP are available

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

There are several benefits of lyophilized molecular diagnostic mixes. They maintain stability for long durations, are stored and transported at ambient temperature, and are ideal for high-throughput, automated platforms or microfluidic systems with rapid rehydration requirements.

RealHelix™ **LyoReady Premixes** revolutionize lyophilization in molecular diagnostics, offering a glycerol-free, excipient-enhanced formula tailored for you to create lyophilized versions of qPCR, qRT-PCR, LAMP, and RT-LAMP master mixes including specific primers and probes.

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

Unlike traditional lyophilization processes with lengthy optimization phases, RealHelix™ **LyoReady Premixes** streamline the transition to lyophilized. This ready-to-use, one-tube solution eliminates the need for extensive development efforts. Simply mix primers and probes with RealHelix™ **LyoReady Premixes** for direct lyophilization.

Choose Nanohelix's RealHelix™ **LyoReady Premixes** for a streamlined, sustainable, high-performance solution for lyophilizing your molecular diagnostics.

Ordering Information

Lyophilized Reagents

Real-Time PCR/RT-PCR

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

Product	Size	Cat. No.
RealHelix™ qPCR Lyo-Cake [Green]	96 rxns	LDFQP-G96
RealHelix™ qPCR Lyo-Cake [Green] [UDG System]	96 rxns	LDFQPU-G96

FastLAMP/RT-LAMP

Product	Size	Cat. No.
HelixAmp™ FastLAMP Lyo-Dot	96 rxns	LFLP-B96
HelixAmp™ FastLAMP Lyo-Cake	96 rxns	LFLP-C96
HelixAmp™ Fast RT-LAMP Lyo-Dot	96 rxns	LFRLP-B96
HelixAmp™ Fast RT-LAMP Lyo-Cake	96 rxns	LFRLP-C96
HelixAmp™ FastLAMP Lyo-Dot (V3)	96 rxns	LFLP3-B96
HelixAmp™ FastLAMP Lyo-Cake (V3)	96 rxns	LFLP3-C96
HelixAmp™ Fast RT-LAMP Lyo-Dot (V3)	96 rxns	LFRLP3-B96
HelixAmp™ Fast RT-LAMP Lyo-Cake (V3)	96 rxns	LFRLP3-C96

Product	Size	Cat. No.
HelixAmp™ FastLAMP Lyo-Cake [Green] (V3)	96 rxns	LFLP3-G96
HelixAmp™ Fast RT-LAMP Lyo-Cake [Green] (V3)	96 rxns	LFRLP3-G96

Ordering Information

LyoReady Premix

Real-Time PCR/RT-PCR

Product	Size	Cat. No.
RealHelix™ 2.5x qPCR LyoReady Premix [Probe]	1 ml	SDFQP-1ML
	10 ml	SDFQP-10ML
	100 ml	SDFQP-100ML
RealHelix™ 2.5x qPCR LyoReady Premix [Probe] [UDG System]	1 ml	SDFQPU-1ML
	10 ml	SDFQPU-10ML
	100 ml	SDFQPU-100ML
RealHelix™ 2.5x qRT-PCR LyoReady Premix [Probe]	1 ml	SDFQR-1ML
	10 ml	SDFQR-10ML
	100 ml	SDFQR-100ML
RealHelix™ 2.5x qRT-PCR LyoReady Premix [Probe] [UDG System]	1 ml	SDFQRU-1ML
	10 ml	SDFQRU-10ML
	100 ml	SDFQRU-100ML

FastLAMP/RT-LAMP

Product	Size	Cat. No.
HelixAmp™ 2.5x FastLAMP LyoReady Premix	1 ml	SFLP-1ML
	10 ml	SFLP-10ML
	100 ml	SFLP-100ML
HelixAmp™ 2.5x Fast RT-LAMP LyoReady Premix	1 ml	SFRLP-1ML
	10 ml	SFRLP-10ML
	100 ml	SFRLP-100ML
HelixAmp™ 2.5x FastLAMP LyoReady Premix (V3)	1 ml	SFLP3-1ML
	10 ml	SFLP3-10ML
	100 ml	SFLP3-100ML
HelixAmp™ 2.5x Fast RT-LAMP LyoReady Premix(V3)	1 ml	SFRLP3-1ML
	10 ml	SFRLP3-10ML
	100 ml	SFRLP3-100ML



NanoHelix Co., Ltd.

(Tel. +82 42 867 9055, Fax. +82 42 867 9057)

43-15, Techno 5-ro, Yuseong-gu, Daejeon, 34014, Republic of Korea

www.nanohelix.net

info@nanohelix.net

