

Lyo-Ready 1-Step RT-qPCR Mixes

Lyophilization-compatible RT-qPCR master mixes that are ideal for high-throughput and point-of-care diagnostic assays.

Suitable Applications

-  Food Testing
-  Environmental
-  Human Diagnostics
-  Vet Health

Lyo-Ready 1-Step RT-qPCR master mixes are glycerol-free formulations that contain Taq polymerase, reaction buffer, dNTP, MgCl₂, lyo-exipients and separate reverse transcriptase and dilution buffer. They are ideal for developing room temperature, lyophilized, multiplex RT-qPCR diagnostic tests and are suited for high-throughput, automated platforms requiring milli-second rehydration times.

Optimized 1-Step RT-qPCR Master Mixes for Lyophilization

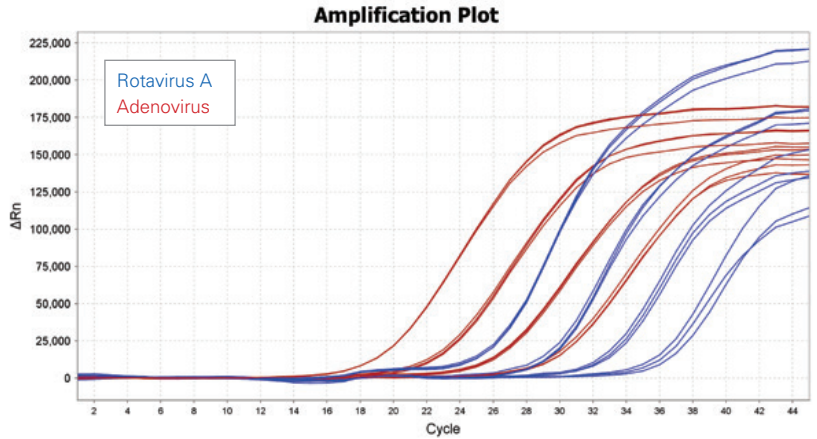
- Provided glycerol-free and pre-formulated with a specialized blend of lyo-exipients
- Virus mix (Cat #MDX062) is specifically optimized for amplification of RNA or DNA viruses with a high secondary structure (reverse transcriptase remains active at 55-60 °C)
- Suited for multiplex-assays and low-copy number targets
- Compatible with lyophilization into beads or cakes
- Ideal for developing fast, highly reproducible assays requiring ambient temperature transport and storage

PRODUCT	CAT NO.	VOLUME	REACTIONS
Lyo-Ready™ 1-Step RT-qPCR Mix	MDX024	10 mL	1,000 Rxn
		100 mL	10,000 Rxn
Lyo-Ready™ 1-Step RT-qPCR Virus Mix	MDX062	10 mL	1,000 Rxn
		100 mL	10,000 Rxn

Product Highlights

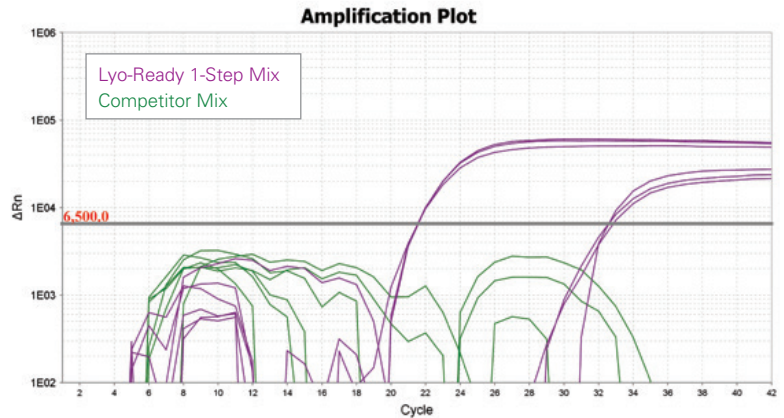
High efficiency and sensitivity from both DNA and RNA templates

Amplification of both Rotavirus A (dsRNA) and Adenovirus (dsDNA) in a single multiplexed RT-qPCR assay, from inactivated crude viral lysates. The result illustrates that both viruses were amplified with high efficiency and sensitivity, demonstrating the ability of Lyo-Ready™ 1-Step RT-qPCR Virus Mix (Cat #MDX062) to detect low-copy number RNA and DNA targets simultaneously from a single sample.



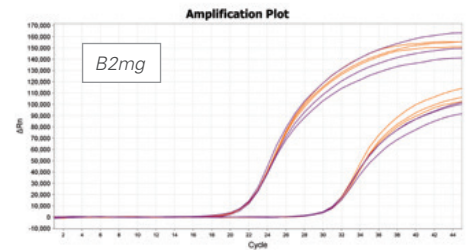
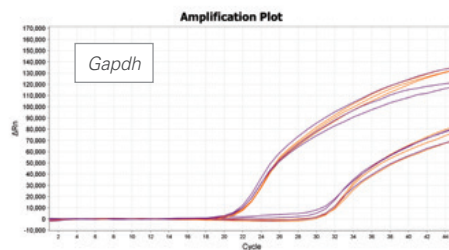
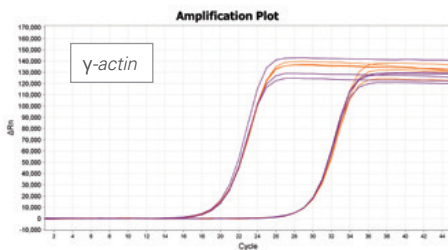
Inhibitor tolerant enabling amplification directly from blood samples

γ -actin was amplified from mouse RNA in the presence of 2% whole blood using Lyo-Ready™ 1-Step RT-qPCR Mix (purple traces) and a competitor mix (green traces). The results demonstrate the ability of Lyo-Ready™ 1-Step RT-qPCR Mix (Cat #MDX024) to amplify from difficult samples such as blood, in contrast to the competitor mix which fails, even with higher concentrations of the template RNA.



Retention of reverse transcriptase activity following lyophilization

Primers and probes were added to Lyo-Ready™ 1-Step RT-qPCR Mix (Cat #MDX024), dried down and immediately rehydrated (purple) and tested against a freshly prepared wet mix (orange), in a triplex probe RT-qPCR assay on mouse RNA. The results demonstrate the same reverse transcriptase enzyme activity before and following lyophilization.



Lyophilised | Wet Mix

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