

Lyo-Ready qPCR Buffer w/o Excipients, 4x

Product Handling Guide

Shipping:	On Dry or Blue Ice
Catalog number:	MDX061
Batch No.:	See vial
Concentration:	4x

Store at -20 °C



Storage and stability:

Lyo-Ready qPCR Buffer w/o Excipients is shipped on dry or blue ice. On arrival store at -20 °C for optimum stability. Repeated freeze/thaw cycles should be avoided. Thawing during transportation does not affect the product performance. Solutions should be mixed/equilibrated after each thawing to avoid phasing.

Expiry:

When stored under the recommended conditions and handled correctly, full activity of the kit is retained until the expiry date on the outer box label.

Safety precautions:

Read and understand the SDS (Safety Data Sheets) before handling the reagents. Hardcopies of the SDS will be provided with the first shipment, thereafter they will be available upon request.

Quality control:

Bioline operates under ISO 13485 Quality Management System. Lyo-Ready qPCR Buffer w/o Excipients and its components are extensively tested for activity, processivity, efficiency, heat activation sensitivity, absence of nuclease contamination and absence of nucleic acid contamination.

Notes:

This reagent has been manufactured under 13485 Quality Management System and is suitable for further manufacturing use as an IVD component.

Description

Lyo-Ready qPCR Buffer w/o Excipients is a glycerol-free qPCR reaction buffer that allows formulation optimization to freeze-drying methods by excipients selection. In order to produce room temperature lyophilized qPCR reagents, lyo-excipients, a lyo-compatible Taq DNA polymerase, assay specific primers and probes are added to Lyo-Ready Buffer for subsequent freeze-dry.

Kit components

Table 1

Component
Lyo-Ready qPCR Buffer w/o Excipients, 4x

Users Guidelines

Master mix preparation

Recommended reagent volumes per 20 µL qPCR mix are given in Table 2.

Table 2

Reagent	Volume
Lyo-Ready qPCR Buffer w/o Excipients, 4x	5 µL
Lyo-compatible Taq DNA polymerase*	x µL
Lyo-Excipients*	x µL
dNTP Mix, 100 mM*	0.8 µL
MgCl ₂ , 200 mM*	0.6 µL
Primer-Probe Mix, 20x	1 µL
Water	x µL
Total Volume	Up to 20 µL

* Assay-dependent optimization is suggested. Lyo-excipients are required in order to produce a lyo-compatible qPCR Mix

Dispense into reaction vials and immediately transfer into a freeze-dryer and run a suitable drying cycle.

For long-term storage at ambient temperatures, the lyophilized product from the freeze-dryer should be packaged at low relative humidity conditions.

Assay setup

Rehydrate the lyophilized qPCR mix in the reaction vials with 20 µL template-containing solution and run qPCR.

The qPCR conditions in Table 3 are suitable for amplicons of up to 200 bp. These cycling parameters have been optimized for Lyo-Ready qPCR Buffer on a number of platforms, however they can be varied to suit different machine-specific protocols.

Table 3

Step	Temperature	Time	Cycles
Polymerase activation	95 °C	2 min	1
Denaturation	95 °C	5 s	45
Annealing/Extension	60 °C	20 s	

Related Products	Cat. No.
Glycerol-Free Taq HS 50U/µL	MDX011
Lyo-Ready qPCR Buffer, 2.5x	MDX022
Lyo-Compatible MMLV-RT	MDX042
dNTP Mix, 100mM	MDX051

Technical Support

For any technical enquiries, please contact our Technical Support team via email at: mbi.tech@meridianlifescience.com

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