Lyo-Ready qPCR Buffer 2.5x Product Handling Guide		Storage and stability: Lyo-Ready qPCR Buffer 2.5x 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 at the product performance. Solutions should be mixed/equilibrated after each thawing to avoid phasin Expiry: When starsd under the recommended conditions and bandled correctly, full activity of the kit is	
Shipping:	On Dry or Blue Ice	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.	
Catalog number:	MDX022	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.	
Batch No.: Concentration:	See vial 2.5x Store at –20 °C	Quality control: Bioline operates under ISO 13485 Quality Management System. Lyo-Ready qPCR Buffer 2.5x is extensively tested for activity, processivity, efficiency, heat activation sensitivity, absence of nuclease contamination and absence of nucleic acid contamination.	
merid		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 2.5x is a glycerol-free qPCR reaction buffer containing lyo-excipients. In order to produce lyophilized, ambient-temperature stable qPCR reagents, dNTP, MgCl₂ and glycerol-free Taq DNA polymerase must be added prior to lyophilization.

Kit components

Table 1

Component

Lyo-Ready qPCR Buffer, 2.5x

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 Mix, 2.5x	8 µL
Glycerol-free Taq DNA polymerase*	xμL
dNTP Mix, 100 mM*	0.8 µL
MgCl ₂ , 200 mM*	0.6 µL
Primer-Probe Mix, 20x	1 µL
Water	xμL
Total volume	Up to 20 μL

* Assay-dependent optimization is suggested

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 μ L 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 2.5x 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	45	

Related Products	Cat. No.
Glycerol-Free Taq HS 50U/µL	MDX011
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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