

Lyo-Ready™ Direct DNA qPCR Stool

Product Handling Guide

Shipping:	On Dry/Blue Ice
Catalog number:	MDX0132
Batch No.:	See vial
Concentration:	4x

Store at -20 °C



Storage and stability:

Lyo-Ready™ Direct DNA qPCR Stool is shipped on dry/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:

Meridian operates under ISO 13485 Quality Management System. Lyo-Ready™ Direct DNA qPCR Stool and its components are extensively tested for activity, processivity, efficiency, heat activation sensitivity, absence of nuclease contamination and absence of nucleic acid contamination.

Notes:

For research or further manufactured use only.

Description

Lyo-Ready™ Direct DNA qPCR Stool is a glycerol-free one tube formulation combining the latest advances in buffer chemistry and PCR enhancers, together with an optimized concentration of antibody-mediated hot-start polymerase, dNTPs and MgCl₂. Lyo-Ready™ Direct DNA qPCR Stool has been designed for highly reproducible, accurate DNA target amplification, delivering excellent results in multiplex assays, even in the presence of crude respiratory tract samples. In order to produce room temperature lyophilized qPCR reagents, assay specific primers and probes can be added to Lyo-Ready™ Direct DNA qPCR Stool for subsequent lyophilization.

Kit components

Table 1

Component
Lyo-Ready™ Direct DNA qPCR Stool, 4x

Users Guidelines

Master mix preparation

Recommended reagent volumes of Lyo-Ready™ Direct DNA qPCR Stool and Primer–Probe Mix for lyophilization are given in Table 2. Volumes are indicated per 20 µL final rehydrated reaction.

Table 2

Reagent	Volume
Lyo-Ready™ Direct DNA qPCR Stool, 4x	5 µL
Primer–Probe Mix, 20x	1 µL*
Water	x µL
Total Volume	20 µL

* Primer and probe concentration needs to be optimised

Dispense into reaction vessels, 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 with silica desiccant in a heat sealed pouch at low relative humidity conditions.

Assay setup

Rehydrate the lyophilized qPCR master 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™ Direct DNA qPCR Stool on a number of platforms, however they can be varied to suit different detection assay and 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	

Associated products

Lyo-Ready™ Direct RNA/DNA qPCR Stool, 4x	MDX143
Lyo-Ready™ Direct DNA qPCR Blood, 4x	MDX122
Lyo-Ready™ Direct DNA qPCR Saliva, 4x	MDX132
Air-Dryable™ Direct DNA qPCR Stool, 4x	MDX140
Air-Dryable™ Direct RNA/DNA qPCR Stool, 4x	MDX141
Air-Dryable™ Direct DNA qPCR Blood, 4x	MDX092
Air-Dryable™ Direct DNA qPCR Saliva, 4x	MDX130

Technical Support

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