

# Lyo-Ready™ AOF Direct DNA qPCR Saliva

## Product Handling Guide

Shipping:	Blue Ice
Catalog number:	MDX332
Batch No.:	See vial
Concentration:	4x

Store at -20 °C



### Storage and stability:

Lyo-Ready™ AOF Direct DNA qPCR Saliva is shipped on 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™ AOF Direct DNA qPCR Saliva and its components are extensively tested for activity and sensitivity.

### Notes:

For research and further manufacturing use only.

## Description

Lyo-Ready™ AOF Direct DNA qPCR Saliva is an one tube formulation free from animal-origin ingredients that combines the latest advances in buffer chemistry and PCR enhancers, together with an optimized concentration of recombinant antibody-mediated hot-start polymerase, dNTPs (including dUTP) and MgCl<sub>2</sub>. Lyo-Ready™ AOF Direct DNA qPCR Saliva 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™ AOF Direct DNA qPCR Saliva for subsequent lyophilization. The mix is suitable for high-throughput assays where there is a greater risk of false positives from cross-over contamination.

## Kit components

Table 1

Component
Lyo-Ready™ AOF Direct DNA qPCR Saliva, 4x

## Users Guidelines

### Master mix preparation for lyophilization

Recommended reagent volumes for the preparation of master mix per 20 µL qPCR reaction are given in Table 2.

Table 2

Reagent	Volume
Lyo-Ready™ AOF Direct DNA qPCR Saliva, 4x	5 µL
Primer-Probe Mix, 20x*	1 µL
Water	Up to 10 µL

\* Primer and probe concentration must be optimized

For preparation of lyo-cakes, dispense into reaction vials, such as PCR strip tubes or plates, and immediately transfer into a freeze-dryer and run a suitable lyophilization cycle (See: Lyophilization and Post-lyophilization User Guideline).

For preparation of lyo-beads, dispense the liquid master mix into liquid nitrogen and immediately transfer into a freeze-dryer and run a suitable lyophilization cycle (See: Lyo-bead production and Post-lyophilization User Guideline).

For long-term storage at ambient temperatures, the lyophilized product from the freeze-dryer should be packaged with a silica sachet in a heat sealed pouch at low relative humidity conditions.

## Assay setup

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

The qPCR conditions in Table 3 are suitable for amplicons of up to 200 bp. These cycling parameters have been optimized for Lyo-Ready™ AOF Direct DNA qPCR Saliva 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	

\* When multiplexing, the annealing/extension time can be extended up to 60 seconds and/or the annealing/extension temperature can be increased up to 65°C.

## Associated Products

Component	Cat. No.
Lyo-Ready™ AOF Direct DNA qPCR Blood, 4x	MDX322
Lyo-Ready™ AOF Direct RNA/DNA qPCR Blood, 4x	MDX323
Lyo-Ready™ AOF Direct RNA/DNA qPCR Saliva, 4x	MDX333
Lyo-Ready™ AOF Direct DNA qPCR Urine, 4x	MDX352
Lyo-Ready™ AOF Direct RNA/DNA qPCR Urine, 4x	MDX353