

# Low DNA qPCR Mix

## Product Handling Guide

Shipping: On Dry or Blue Ice  
Catalog number: MDX030  
Batch No.: See vial  
Concentration: 2x

Store at -20 °C



### Storage and stability:

Low DNA qPCR Mix 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. Low DNA qPCR Mix 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

Low DNA qPCR Mix is a combination of the latest advances in buffer chemistry and PCR enhancers and stabilizers, together with a chemical hot-start polymerase, dNTPs and MgCl<sub>2</sub>. Low DNA qPCR Mix has been designed for highly reproducible, accurate assay results under fast thermal cycling conditions, delivering excellent results in multiplex assays.

## Kit components

Table 1

Component
Low DNA qPCR Mix, 2x

## Users Guidelines

### Master mix preparation

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

Table 2

Reagent	Volume
Low DNA qPCR Mix, 2x	10 µL
Primer-Probe Mix, 20x	1 µL
Template*	Up to 9 µL
Water	As required
<b>Total volume</b>	<b>Up to 20 µL</b>

\*Use up to 1 µg of complex (e.g. eukaryotic) genomic DNA or 100 ng cDNA in a single PCR

## Assay setup

The qPCR conditions in Table 3 are suitable for amplicons of up to 200 bp. These cycling parameters have been optimized for Low DNA qPCR Mix 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**	10 min**	1
Denaturation	95 °C	10 s	45
Annealing/Extension	60 °C	20 s	

\*\*Non-variable parameter

## Technical Support

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

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