

Low LOD 1-Step RT-qPCR Mix

Product Handling Guide

Shipping:	On Dry or Blue Ice
Catalog number:	MDX025
Batch No.:	See vial
Concentration:	2x

Store at -20 °C



Storage and stability:

Low LOD 1-Step RT-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 LOD 1-Step RT-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 LOD 1-Step RT-qPCR Mix comprises a master mix containing Taq polymerase, reaction buffer, MgCl₂ and optimized dNTP/dUTP mix, and separate reverse transcriptase/RNase inhibitor mix. Low LOD 1-Step RT-qPCR Mix is designed for stringent amplification of highly-structured and very low copy-number RNA and DNA targets, ideal for applications such as blood bank or transplant viral testing.

Kit components

Table 1

Component
Low LOD 1-Step RT-qPCR Reaction Mix, 2x
RNase-Tolerant MMLV-RT, 100x

Users Guidelines

Master mix preparation

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

Table 2

Reagent	Volume
Low LOD 1-Step RT-qPCR Reaction Mix, 2x	10 µL
RNase-Tolerant MMLV-RT, 100x	0.2 µL
Primer-Probe Mix, 20x	1 µL
Purified template	x µL
Water	x µL
Total volume	Up to 20 µL

Assay setup

The RT-qPCR conditions in Table 3 are suitable for amplicons of up to 200 bp. These cycling parameters have been optimized for Low LOD 1-Step RT-qPCR Mix on a number of platforms, however they can be varied to suit different machine-specific protocols.

Table 3

Step	Temperature	Time	Cycles
Reverse transcription	50 °C	10 min	1
Polymerase activation	95 °C	2 min	1
Denaturation	95 °C	5 s	45
Annealing/Extension	60 °C	20 s	

Technical Support

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

Bioline Reagents Ltd
UNITED KINGDOM

Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

Bioline USA Inc.
USA

Tel: +1 901 382 8716
Fax: +1 901 382 0027

Bioline GmbH
GERMANY

Tel: +49 (0)337 160222 00
Fax: +49 (0)3371 60222 01

Bioline (Aust) Pty. Ltd
AUSTRALIA

Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763

Bioline France
FRANCE

Tel: +33 (0)1 42 56 04 40
Fax: +33 (0)9 70 06 62 10