

RNase-Tolerant MMLV-RT Product Handling Guide

Shipping:	On Dry or Blue Ice
Catalog number:	MDX043
Batch No.:	See vial
Concentration:	100x

Store at -20 °C



Storage and stability:

RNase-Tolerant MMLV-RT 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. RNase-Tolerant MMLV-RT 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

RNase-Tolerant MMLV-RT is a reverse transcriptase/RNase inhibitor mix optimized for one-step RT-PCR. RNase-Tolerant MMLV-RT is used for the detection of RNA at very low levels, it can also be used with a broader temperature range, making it ideal for applications such as blood bank or transplant viral testing.

Kit components

Table 1

Component
RNase-Tolerant MMLV-RT, 100x

Users Guidelines

Recommended reagent volumes per 20 µL in a 1-Step RT-qPCR mix are given in Table 2.

Table 2

Reagent	Volume
1-Step RT-qPCR 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 need to be optimized for the 1-Step RT-qPCR Mix and 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

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