

## M-MLV Reverse Transcriptase

Catalog Number	LDG0006RF
Package	20,000 U / 50,000 U / Customized package

For full product information, images and publications, please visit [our website](#).



### Overview

#### Description

Moloney Murine Leukemia Virus (M-MLV) Reverse Transcriptase is an RNA-dependent DNA polymerase that synthesizes the first strand of complementary cDNA from a single-stranded RNA template with hybridized primer. This kit features high activity formulation of M-MLV RT and 5X reverse transcription buffer which are capable of full-length cDNA synthesis and high cDNA yields.

#### Product Note

5X M-MLV Reverse Transcriptase Buffer: 250 mM Tris-HCl (pH 8.3), 15 mM MgCl<sub>2</sub>, 375 mM KCl, and 50 mM DTT. After the reaction is complete, M-MLV RTase can be inactivated by incubation at 65°C for 20 minutes

#### Components

Package	Items	Quantity
20,000 U	M-MLV Reverse Transcriptase (200 U/μL)	1 vial (20,000 U)
	5× M-MLV Reverse Transcriptase Reaction Buffer	1 vial (1 mL)
50,000 U	M-MLV Reverse Transcriptase (200 U/μL)	1 vial (50,000 U)
	5× M-MLV Reverse Transcriptase Reaction Buffer	1 vial (1 mL)

### Specifications

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**Expression system**

Escherichia coli

**Concentration**

200 U/uL

**Purity**

>98% as determined by SDS-PAGE analysis.

**Form**

Liquid

**Application**

Reverse transcription, RT-PCR

**Buffer**

M-MLV Reverse Transcriptase is supplied in 20 mM Tris-HCl (pH 7.5), 200 mM NaCl, 0.25 mM EDTA, 0.01% NP-40 (v/v), 2.5 mM DTT and 50% glycerol (v/v).

**Unit Definition**

One unit is defined as the amount of the enzyme incorporates 1 nmol of dTTP into acidinsoluble product in 10 minutes at 37°C.

**Instruction****Shipping**

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

**Stability & Storage**

This product is stable after storage at:

- -20°C or -80°C for 12 months under sterile conditions from date of receipt.

Avoid repeated freeze/thaw cycles.

**Disclaimer :** For Research Use or Further Manufacturing Only.

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