HIV-1 Reverse Transcriptase

Catalog Number	LDG0022RF
Package	200 U / Customized package

For full product information, images and publications, please visit our website.

Overview

Description

The human immunodeficiency virus type 1 reverse transcriptase (HIV-1 RTase is an enzyme that can catalyze complementary DNA (cDNA) synthesis from an RNA template. Due to its greater thermostability than comparatives of AMV and MMLV, HIV-1 RTase is currently used for RT-LAMP reactions, in combination with Bst DNA polymerase LF.

Product Note

10X Isothermal Amplification Buffer: 200 mM Tris-HCl (pH 8.8), 100 mM $(NH_4)_2SO_4$, 500 mM KCl, 20 mM $MgSO_4$, and 1% Tween 20.

Components

Package	Items	Quantity
200 U	HIV-1 Reverse Transcriptase (5 U/μL)	1 vial (200 U)
	10× Isothermal Amplification Buffer	1 vial (1 mL)
	100 mM $MgSO_4$	1 vial (0.4 mL)

Specifications

Expression System

Escherichia coli

Application

Loop-mediated Isothermal Amplification (LAMP), Reverse transcription

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Concentration

5 U/µL

Storage Buffer

HIV-1 Reverse Transcriptase is supplied in 10 mM Tris-HCl (pH 7.4), 100 mM KCl, 1 mM DTT, 0.1 mM EDTA and 50% glycerol (v/v).

Purity

>98% as determined by SDS-PAGE analysis.

Unit Definition

One unit is defined as the amount of the enzyme incorporates 1 nmol of dTTP into acidinsoluble product in 10 minutes at 50°C.

Form

Liquid

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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