

Reverse Transcriptase from HIV, Recombinant

Cat. No. NATE-0987

Lot. No. (See product label)

Introduction

Description Chromatographically purified heterodimer composed of 66kDa and 51kDa subunits.

Supplied as a solution in 10mM potassium phosphate, pH 7.4, 1mM DTT and 20% glycerol. Primarily for AIDS research purposes; this enzyme has less fidelity than the AMV enzyme in other applications such as the preparation of cDNA from mRNA

for cloning purposes.

Applications HIV reverse transcriptase is used for research on the AIDS primer. However it can

be substituted for AMV reverse transcriptase, which is mainly used to transcribe mRNA into double stranded cDNA, that can be inserted into prokaryotic vectors. The enzyme can also be used with either single stranded DNA or RNA templates to make probes for use in hybridization experiments. It can be used for labeling the termini of DNA fragments with protruding 5' termini. The enzyme can also be used to sequence DNAs by the dideoxy chain termination method of Sanger when the Klenow fragment of E. coli DNA polymerase I, or the T7 DNA polymerase yield

unsatisfactory results.

Synonyms Reverse transcriptase; RT

Product Information

Species HIV

Source E. coli

Form A solution in 10mM potassium phosphate, pH 7.4, 1mM DTT and 20% glycerol.

EC Number EC 2.7.7.49

CAS No. 9068-38-6

Molecular Weight 66 kDa and 51 kDa

Purity Chromatographically purified

Activity > 5,000 units per mg protein

Unit Definition One Unit incorporates 1 nmole of tritiated d-TMP into acid precipitable products

using poly(A)/oligo(dT)12-18 as the template/primer in 20 minutes at 37°C, pH 8.3.

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Storage and Shipping Information

Storage Store at -20°C