

Active Recombinant PureScript III Pro Reverse Transcriptase

Cat. No. RT-42 Lot. No. (See product label)

SPECIFICATION

Product Overview	PureScript III Pro Reverse Transcriptase expressed in E.coli carrying an improved reverse transcriptase gene cloned from M-MLV. It is an upgraded version of PureScript II Pro Reverse Transcriptase, designed for efficient reverse transcription reactions at 37 centigrade.
Source	E.coli
Description	PureScript III Pro Reverse Transcriptase is a new generation reverse transcriptase optimized from the M-MLV (RNase H) Reverse Transcriptase. Compared with the previous generation, PureScript III Pro Reverse Transcriptase is designed for efficient reverse transcription reactions at 37oC, while retaining the thermostability of PureScript II Pro. For RNA with complex secondary structure, the reverse transcription reaction temperature can be raised to 50 ~ 55 oC, avoiding the inhibitory effect of complex secondary structure on cDNA synthesis. In addition, this product still has superior continuous synthesis ability and superior impurity tolerance. It is applicable for reverse transcription of animal, plant, and microbial RNA.
Bio-activity	The specific activity of PureScript III Pro Reverse Transcriptase was determined to be 200 Units/μL.
Unit Definition	One unit (U) is defined as the amount of enzyme that incorporates 1 nmol of dTTP into acid-insoluble material in 10 min at 37 centigrade with Poly (rA)-Oligo (dT) as the template/primer.

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Stability	One year at -30 to -15 centigrade from date of shipment.
Storage	Store product at -30 to -15 centigrade. For optimal performance aliquot product into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated handling and multiple freeze/thaw cycles.
Concentration	200 U/ μ L
Shipping	Ice pack
GENE INFORMATION	
Official Symbol	RT
Synonyms	RT; PureScript III Pro Reverse Transcriptase; Reverse Transcriptase

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