

TECHNICAL SHEET :

Reverse Transcriptase 10000U

Ref : AE01

Storage: at -20°C for two years

Concentration: 200 units/ μ l

Description:

Reverse Transcriptase (RT) is an engineered version of M-MLV reverse transcriptase with deficient RNase H activity. The enzyme is purified to near homogeneity from E.coli containing the modified M-MLV RT gene.

- Deficient RNase H activity to reduce RNA template degradation during the first-strand cDNA synthesis.
- Anchored Oligo(dT)₁₈ Primer for higher yield and more full length cDNA.
- cDNA up to 8 kb.

Applications:

- First-strand cDNA synthesis
- Multiple copy gene detection

Unit Definition:

One unit of RT incorporates 1 nmol of deoxyribonucleotide into acid precipitable material in 10 minutes at 37°C using Poly(A)/Oligo(dT) as template/primer.

5x RT Buffer

375 mM KC1, 15 mM MgCl₂, 100 mM Tris-HCl pH 8.4

Kit Contents

Component	Volume
RT	10000 U
5x RT Buffer	200 μ l
Anchored Oligo(dT) ₁₈ Primer (0.5 μ g/ μ l)	50 μ l