FUJIFILM

Wako

Code No. 186-01251 (10,000 units)

ReverScript® Ⅰ

(Reverse Transcriptase, M-MLV, RNase H minus)

リバースクリプト® Ⅰ

(リバーストランスクリプターゼ, M-MLV, RNase H マイナス)

ReverScript® Ⅰ is a RNA-dependent DNA polymerase from Moloney Murine Leukemia Virus (MMLV) and RNase H inactivated with the optimum faction maintained of polymerase. It can be used in cDNA synthesis using mRNA as template under existence primer.

Trans *

リバースクリプト® Ⅰは、RNase H 活性を除去した *Moloney Murine Leukemia Virus* (MMLV) の RNA 依存性 DNA ポリメラーゼです。プライマー存在下で mRNA を鋳型として 1 本鎖 cDNA を合成します。

Source : *E. coli* expressed M-MLV pol deletion mutant

Activity : Indicated on the label.

Unit Definition : One unit is defined as the enzyme amount that incorporate of 1 nmol of dTTP into acid insoluble form in 10 minutes at 37℃.

Activity assay : 50 mmol/L Tris-HCl, 40 mmol/L KCl, 7 mmol/L $MgCl_2$, 10 mmol/L DTT, 0.1 mg/mL BSA, 0.5 mmol/L [H_3] TTP, 0.25 mmol/L poly A, 0.025 mmol/L oligo dT_{50}

Form : 20 mmol/mL Tris-HCl, 200 mmol/L NaCl, 0.1 mmol/L EDTA, 1 mmol/L DTT, 0.01 % Nonidet P-40, 50% Glycerol (pH 7.5).

Nickase : Greater than 90% super coiled plasmid remain after incubation with 200 units of enzyme for 60 minutes at 37℃.

DNase : Tritium labeled dsDNA is incubated with 200 units of enzyme for 60 minutes at 37℃, and the release of radio labeled nucleotides is monitored by scintillation counting of TCA-soluble material. Minimum passing specification is less than 3% release for DNase.

RNase H : Tritium labeled RNA is incubated with 200 units of enzyme for 60 minutes at 37℃, and the release of radio labeled nucleotides is monitored by scintillation counting of TCA-soluble material. Minimum passing specification is ＜1% release for RNase.

[Storage] −20℃, Protect from light

[Package] Code No. 186-01251

ReverScript® Ⅰ 10,000 units	(Approximately 50 μL)
5 × Reaction Buffer	(Approximately 1 mL)

(Note) * Components of the 5 × Reaction Buffer
250 mmol / L Tris-HCl, 375 mmol / L KCl, 15 mmol / L $MgCl_2$, 50 mmol / L DTT (pH 8.3)

[References]

1) Monica, R. Tanese, N and Goff, S. P. : *J. Biol. Chem*. **260**, 9326 (1985)
2) Tanese, N. and Goff, S. P. : *Proc. Natl. Acad. Sci. USA*. **85**, 1977 (1988)

＊ : Trans is the Japanese translation.

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