

FUJIFILM

Wako

Code No. 187-01281 (50,000 units)
187-01286 (250,000 units)

Reverse Transcriptase, M-MLV, RNase H⁺

逆転写酵素, M-MLV, RNase H⁺

Reverse transcriptase is RNA-dependent DNA polymerase, purified from *E. coli*, which contains the inserted plasmid for the wild type of Moloney murine leukemia virus (M-MLV) *pol* gene. In the presence of primer, this enzyme synthesizes cDNA with RNA templates.

Source : *E. coli* expressed M-MLV *pol* gene.

Appearance : The enzyme is dissolved in 20 mmol/L Tris-HCl (pH 7.5), 0.2 mol/L NaCl, 0.1 mmol/L EDTA, 1 mmol/L DTT, 0.01% Nonidet P-40 and 50% glycerol.

Activity : Indicated on the label

Unit definition : One unit is defined as the amount of enzyme to transfer of 1nmol of dTTP into acid-precipitable fraction at 37°C for 10 minutes under the condition described below.

Trans *

単位の定義 : 下記活性条件下で、37°C、10分間に1nmolのdTTPを酸不溶性画分に取り込ませる酵素量を1unitとする。

Condition of assay : Reaction mixture for assay consisted of 50 mmol/L Tris-HCl (pH 8.3), 40mmol/L KCl, 7mmol/L MgCl₂, 10 mmol/L DTT, 0.1 mg/mL BSA, 0.5 mmol/L [³H]dTTP, 0.25 mmol/L oligo (dT)₅₀, and 0.025 mmol/L poly (A).

Purity : min. 90% (SDS-PAGE and CBB stains)

Nickase activity : When 500 units of this product and 1 μg of the super coiled plasmid DNA are incubated at 37°C for 60 minutes, the amount of plasmid that remained in the super coiled condition is 90% or above.

Trans *

Nickase 活性 : 本品500 units とスーパーコイルプラスミド DNA 1 μg を37°C、60分間インキュベートしたとき、90%以上のプラスミドがスーパーコイル状態を保つ。

DNase and non-specific RNase activity :

When 500 units of this product and 50 ng of [³H] DNA or [³H] RNA are incubated at 37°C for 60 minutes, the amount of tritium in TCA-soluble material is 1% or less.

- 1/2 -

Trans *

DNase 活性及び非特異的 RNase活性 :

本品500 units とトリチウムラベルしたDNA あるいはRNA 50 ng を37°C、60分間インキュベートしたとき、TCA-可溶性成分のトリチウム量が1%以下。

Caution Avoid repeated freezing and thawing.

Trans *

使用上の注意

溶解、凍結の繰り返しはなるべく避けてください。

Storage Store at -20°C

Package

Code No. 187-01281

Reverse Transcriptase, M-MLV, RNase H⁺
50,000units (ca. 250 μL)
5× Reaction Buffer (ca. 1 mL)

Code No. 187-01286

Reverse Transcriptase, M-MLV, RNase H⁺
250,000units (ca. 1,250 μL)
5× Reaction Buffer (ca. 1mL) × 5

(note) The Reaction Buffer consists of 250mmol/L Tris-HCl (pH8.3), 375mmol/L KCl, 15mmol/L MgCl₂ and 50mmol/L DTT.

References

- 1) Roth, M. J., Tanese, N. and Goff, S. P. : *J. Biol. Chem.*, **260**, 9326 (1985).
- 2) Houts, G. E., Miyagi, M., Ellis, C., Beard, D. and Beard, J. W. : *J. Virol.*, **29**, 517 (1979).

* : **Trans** is the Japanese translation.

FUJIFILM Wako Pure Chemical Corporation

1-2, Doshomachi 3-Chome, Chuo-Ku, Osaka 540-8605, Japan
Telephone : + 81-6-6203-3741
Facsimile : + 81-6-6201-5964
<http://fwk.fujifilm.co.jp>

FUJIFILM Wako Chemicals U.S.A. Corporation

1600 Bellwood Road
Richmond, VA 23237
U.S.A.
Telephone : + 1-804-271-7677
Facsimile : + 1-804-271-7791
<http://www.wakousa.com>

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstrasse 12
D-41468 Neuss
Germany
Telephone : + 49-2131-3111-0
Facsimile : + 49-2131-311100
<http://www.wako-chemicals.de>

2304KA2

- 2/2 -