

RNase Inhibitor

(RNase Free)



MO5443

Concentration: 20u/μl



Wet Ice



Store at: -20°C

Components (supplied)

Contents of the kit	Amounts
RNase Inhibitor	2500u

Description

RNase Inhibitor (RNase Free) inhibits the activity of RNase A, B, C by binding them in a noncompetitive mode at a 1:1 ratio. It does not inhibit RNase 1, T1, T2, H, U1, U2, CL3 and other enzymes.

Features

- Performs under a wide range reaction condition.
- Protects RNA from degradation at temperature up to 55°C.
- Increase the time RNA can safely store.

Assay Conditions

100mM Tris-HCL (PH 7.5), 1.2mM EDTA, 0.1mg/ml BSA, 100ng/ml RNase, 0.1mg/ml E. coli[3H] -RNA, 50mg/ml yeast RNA and 8mM DTT.

Inactivation

DTT at final concentration of 5mM.

(RIN-032-01/00) (1)

Unit Definition

1u is defined as the amount of ribonuclease inhibitor that inhibits the activity of 5ng Ribonuclease A by 50%.

Application

Applied in procedures where RNase contamination constitutes a problem:

- In vitro transcription
- In vitro translation
- cDNA synthesis
- isolation of mammalian cell fractions that contain mRNA-protein complex.
- Separation and identification of specific ribonuclease activities.

Storage Buffer

20mM tris, 175mM NaCl, 8mM DTT, 50% glycerol. (pH= 7.7)

Quality Control

The absence of endo-deoxyribonucleases, exo-deoxyribonucleases, phosphatase and ribonucleases confirmed by appropriate quality tests. Functionally tested in RNA and cDNA synthesis.

