Ribonuclease Inhibitor RNase-Free

Cat. No.	size
E4210-01	7 500 u
E4210-02	37 500 u

Ribonuclease inhibitor suitable for use in enzymatic reactions.

Description:

- More potent than competing human placental RNase inhibitors.
- RNase Free.
- Effective over broad pH range from pH 5.5 to 8.5.
- Active over temperature range from 37°C to 70°C.
- Does not interfere with SP6, T7 or T3 RNA polymerase, AMV or M-MLV reverse transcriptase or Taq DNA polymerase.
- Increases the time RNA can be safely stored.

Unit Definition:

One unit is the amount of ribonuclease inhibitor required to inhibit the activity of 5 ng of Ribonuclease A at 25°C (by 50%). Ribonuclease inhibitor activity is determined by the inhibition of RNase A hydrolysis of cyclic 2',3'-cytidine monophosphate in a spectrophotometer recording assay.

Storage Buffer:

20 mM HEPES-KOH (pH 7.5), 100 mM KCl, 0.1 mM EDTA, and 50% (v/v) glycerol.

Assay Conditions:

0.1 M Tris-acetate (pH 6.5 at 22°C), 1 mM EDTA, 1 mM cyclic 2',3'-cytidine monophosphate.

Reaction volume 1 ml.

Storage Conditions:

Store at -20°C.

Quality Control:

All preparations are tested for contaminating endonuclease and exonuclease and nonspecific RNase and single- and double-stranded DNase activities.

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