

Ribonuclease inhibitor, recombinant, Optizyme



Recombinant Ribonuclease inhibitor displays a broad spectrum of inhibitory activity against RNases, and does not have activity against other polymerases and reverse transcriptases



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Suitable for use in common molecular biology applications such as isolation and purification of RNA, cDNA synthesis, RT-PCR*, in vitro RNA transcription/translation, ribonuclease protection assay, and preparation of RNase-free antibodies.

Supplied as a recombinant product from *E. coli* (originally isolated from rat lung) and provides superior protection of RNA from degradation by RNases. This RNase inhibitor is commonly added to all solutions used during the isolation of RNA, and will not interfere with the performance of most enzymes in downstream applications. Active over a broad temperature range, and even provides some RNase inhibition at 60°C which is useful when performing reverse transcription reactions at elevated temperatures to overcome secondary structure in RNA.

Please note: Inactivates RNase A, RNase B, and RNase T2. No activity against SP6, T7, or T3 RNA polymerases, AMV or MMLV reverse transcriptases, and *Taq* DNA polymerase. Unit activity: Defined as the amount of inhibitor required to inhibit 50% of the activity of 5ng of RNase A.

Catalogue No	Quantity
BPE3222-1	2,500 units
BPE3222-5	10,000 units

Storage buffer components: 20mM HEPES-KOH (pH7.6 at 4°C), 50mM KCl, 8mM DTT, and 50% glycerol (v/v)

Product specification

Tested for: DNase and Nickase contamination, absence of RNase activity, and specific performance tests

RNA stabilisation RNAlater solution



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RNAlater® solution eliminates the need to immediately process tissue samples or to freeze samples in liquid nitrogen for later processing.

- Simplifies sample collection - one reagent immediately inactivates RNases and stabilises RNA within tissues or cells
- More flexibility - no need to freeze samples in liquid nitrogen or rush samples back to the lab freezer
- Collect samples at locations where immediate RNA isolation is not possible
- Compatible with many RNA isolation procedures including Ambion® RNA isolation kits

RNAlater® Tissue Collection:RNA Stabilisation solution is an aqueous tissue storage reagent that immediately inactivates RNases and stabilises and protects cellular RNA in intact, unfrozen tissue samples.

Tissue pieces can be harvested and submerged in RNAlater® Solution for storage without jeopardizing the quality or quantity of RNA obtained after subsequent RNA isolation. RNAlater® Solution can be added to cell pellets and even cells in medium. The samples can then be stored frozen or unfrozen. RNA stored in RNAlater® Solution is stable for 1 day at 37°C, 1 week at 25°C, 1 month at 4°C, or long term at -20°C.

RNAlater® Tissue Collection:RNA Stabilisation solution is compatible with most methods of RNA isolation, including: onestep RNA isolation, glass binding technologies, acid phenol extraction, and methods that use oligo(dT) selection of mRNA, such as the Ambion® Poly(A) Purist™ Kit. RNAlater® Solution has been successfully used with a variety of mammalian tissues, plants, *E. coli*, *Xenopus*, fish, and *Drosophila*.

Catalogue No	Alt. No	Description	Quantity
VYAM7020	AM7020	RNAlater® Solution	100mL
VYAM7024	AM7024	RNAlater® Solution	250mL
VYAM7021	AM7021	RNAlater® Solution	500mL
VYAM7022	AM7022	RNAlater® Solution	50 x 1.5mL
VYAM7023	AM7023	RNAlater® Solution	20x 5mL

Sephacryl S-1000



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For large scale purification of plasmid DNA by gel filtration.

- Yields highly pure plasmid DNA with no need for ultracentrifugation
- Sephacryl S-1000 has a high exclusion limit
- Heat stability allows sterilisation by autoclaving
- Exceptional flow properties allow columns to be packed and equilibrated quickly and easily
- Can be used in aqueous buffer systems (pH 2 to 11), in concentrated urea or in guanidine hydrochloride, as well as in a number of organic solvents

The inert and highly stable matrix, specially treated to provide high recoveries of biopolymers, is prepared by covalently crosslinking allyl dextran with N,N'-methylenebisacrylamide. The high mechanical strength of the resulting beads allows high flow rates and fast separations to be achieved.

Catalogue No	Description	Quantity, mL
GZ17047601	Sephacryl S-1000 SF	750

