



RNAzol™ [Trizol / Trixtract]

RNAzol™ is a ready-to-use reagent for the isolation of high-quality total RNA including mRNA, hnRNA, ribosomal RNA and tRNA (as well as DNA and proteins) from plasma, cell and tissue samples of mammalian, plant, yeast, or bacterial origin.

RNAzol is a monophasic solution of phenol, guanidine isothiocyanate, and other proprietary components which facilitate the isolation of a variety of RNA species of large or small molecular size. It maintains the integrity of the RNA due to highly effective inhibition of RNase activity while disrupting cells. The RNA can be used in downstream applications such as mRNA purification, Invitro-transcription, RNase-protection assay, RT-PCR, cDNA cloning & Northern blotting.

RNAzol™ performs sequential precipitation of RNA, DNA, and proteins from a single sample. After homogenizing the sample with RNAzol™, chloroform is added, and the homogenate is allowed to separate into three aqueous layers; the upper layer contains RNA, middle layer contains DNA, and the lower layer contains proteins. Subsequently the RNA is precipitated with isopropanol, DNA is precipitated with ethanol and Protein is precipitated from the phenol-ethanol supernatant by isopropanol precipitation. The precipitated RNA, DNA, or Protein is washed to remove impurities, and then resuspended for use in downstream applications as following:

Isolated RNA can be used in RT-PCR, Northern Blot analysis, Dot Blot hybridization, poly(A)+ selection, in vitro translation, RNase protection assay; molecular cloning;

Isolated DNA can be used in PCR, Restriction Enzyme digestion, and Southern Blots;

Isolated protein can be used for Western Blots, recovery of some enzymatic activity, and some immunoprecipitation.

Catalog No.	140001
Size	100mL / 200mL
Product Category	Nucleic Acid Isolation

Storage/Stability	2 ~ 8°C/1 year
Shipping	Ambient

www.realgenelabs.com

For Research Use only