



VitroSure™ DNase Set for RNA Isolation

SKU: VB-5007

Description

The DNase Set for RNA Isolation is designed to remove contaminating genomic DNA during RNA purification procedures. By applying DNase I directly to the purification column, residual DNA is efficiently digested without affecting RNA integrity or yield. This on-column DNase treatment helps ensure that the isolated RNA is free of genomic DNA contamination, which is critical for downstream applications such as RT-PCR, qPCR, RNA sequencing, and gene expression analysis. The DNase Set is optimized for convenient integration into standard column-based RNA isolation workflows.

Kit Contents

Buffer VDD	5 ml
DNase I Powder	1 mg

*Specific activity of DNase I Powder: 60,000 dornase units (~1800 Kunitz)/mg dry weight

Storage

Store DNase I powder at -20°C. After reconstituting DNase I, aliquot the solution and store it at -20°C.

Typical Procedures

1. Preparation of DNase I Stock Solution

Add 550 µl of RNase-Free Water to 1 mg of DNase I powder and gently mix by inverting the vial. After reconstitution, aliquot the DNase I solution and store the aliquots at -20 °C. Avoid repeated freeze-thaw cycles to maintain enzyme stability.

2. Removal of DNA During RNA Isolation

To remove DNA during RNA isolation, gently mix 10 µl of DNase I stock solution with 70 µl of Buffer VDD and apply the mixture directly onto the column membrane. Incubate at 20–30 °C for 15 minutes. Please follow the protocol when using this set with Kits VB-5002, VB-5003, VB-5005, and VB-5006.

Note: This product is intended for research purposes only. This product is **not** intended to be used for therapeutic or diagnostic purposes in humans or animals.

Precautions: Handle with care. Avoid contact with eyes, skin, and clothing. Do not ingest. Wear gloves.