

**PRODUCT:**                    **PRECIPITATION CARRIER**  
Cat. No:                        PC 173  
Storage:                        Store at 4C.

August 2023

#### **PRODUCT DESCRIPTION**

Precipitation Carrier is a molecular biology grade solution of acryl polymer designed for use with RNAzol® RT in the isolation of small amounts of RNA (< 10 µg). In the RNAzol RT procedure, Precipitation Carrier facilitates the recovery of large RNA (> 200 bases) in a separate fraction. This carrier does not affect the activity of restrictases, reverse transcriptase, Taq polymerase, ligase or other enzymes used for nucleic acid analysis. Precipitation Carrier can be used for at least one year when stored at room temperature or 4 C. The shelf life can be extended beyond one year by storage at -20 C.

#### **APPLICATION**

**RNAzol® RT - Isolation of large RNA (> 200 bases).** Add 1 - 3 µl of Precipitation Carrier when using less than 1.0 ml of reagent, or 3 - 5 µl of carrier for more than 1.0 ml of RNAzol RT. Perform sample homogenization or lysis, add Precipitation Carrier and isolate the RNA as described in the RNAzol RT protocol. Alternatively, add Precipitation Carrier to the water - supernatant obtained after the removal of DNA and proteins (Step 3, RNAzol RT protocol). Add 0.4 volumes of 75% ethanol, briefly mix and store at room temperature for 5 - 10 minutes. Sediment the RNA precipitate at 12,000 g for 8 minutes at 4 - 25 C. Dissolve the precipitate by repetitive pipetting in DEPC - treated water or other solubilizing medium. Please refer to the RNAzol RT protocol for details.

#### **NOTES.**

Precipitation Carrier contributes to the optical density of RNA preparations. To normalize for this effect, process a blank sample containing only the reagent and Precipitation Carrier. Solubilize the final pellet of the carrier in the same volume of solubilization solution used for the RNA pellets. Measure the optical density at 260 and 280 nm for all samples and the blank, and subtract the values for the blank from the values obtained for each RNA sample.

#### **MRC GUARANTEE**

RNase activity - none detected.

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