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**MRC** a corporation "run by scientists for scientists"  
**Molecular Research Center, Inc.**

## **POLYACRYL CARRIER**

Cat. No. PC 152

Store at 4 C.

### **PRODUCT DESCRIPTION**

PolyAcryl Carrier is a molecular biology grade solution of acryl polymer designed for use in the isolation of small amounts of RNA or DNA. PolyAcryl Carrier does not affect the activity of restrictases, reverse transcriptase, Taq polymerase, DNA polymerase, ligase or other enzymes used for nucleic acid analysis. The 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**

For the isolation of RNA or DNA using TRI Reagent® (cat. no. TR 118) or DNAzol® (cat. no. DN 127), add 2 - 8 µl of PolyAcryl carrier per 1.0 ml of TRI Reagent or DNAzol. Perform homogenization or lysis of the sample and isolate the RNA or DNA as described in the respective protocols. For the precipitation of nucleic acids from other solutions, add 2-8 µl of PolyAcryl carrier per 1.0 ml of RNA or DNA solution. Briefly mix the solution and carry out precipitation by adding NaCl to a final concentration of 0.2 M, followed by 2.5 volumes of ethanol. Mix the solution and store at room temperature for 5-10 minutes. Sediment DNA precipitate at 3,000 g or RNA precipitate at 10,000 g for 10 minutes at 4 C. Dissolve the precipitate by repetitive pipeting in DEPC-treated water or other solubilizing medium.

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

### **MRC GUARANTEE**

RNase and DNase activity - none detected.