

**MB615MPF-96**

**HiPurA® Pre- filled Plates for Insta NX® Mag96**

**Kit Contents**

Product Code	Reagents provided	MB615MPF-96
		5 NO
PF3	Plate 3	5 nos
PF5	Plate 5	5 nos
PF6	Plate 6	5 nos
PF7	Plate 7	5 nos
PF8	Plate 8	5 nos
LA1097A	Magnetic Tip Comb for Insta NX® Mag96	5 nos
DS0192	Carrier RNA	3.75 mg
DS0013	Proteinase K	3.75 ml
DS0042	Elution Buffer	5 ml

**Intended Use**

Recommended for isolation of Viral RNA from various samples like nasopharyngeal swab, oropharyngeal swab in Viral Transport Medium and other body fluids.

**Introduction**

HiPurA® Pre- filled Plates for Insta NX® Mag96 provides the fastest and easiest way to purify viral RNA for reliable use in amplification technologies. HiPurA® Pre- filled Plates for Insta NX® Mag96 can be used for isolation of viral RNA from a wide variety of viruses, but the performance may vary depending on virus type.

**HiPurA® Pre- filled Plates for Insta NX® Mag96**

This kit carries out efficient extraction of viral RNA from wide range of viral strains. Sample is first lysed under the highly denaturing conditions provided by Lysis Solution (C1) to inactivate RNases and to ensure isolation of intact viral RNA. When Carrier RNA is added to Elution Solution (RNase-free Water), it improves the binding of viral RNA to the magnetic beads especially in the case of low-titer samples, and limits possible degradation of the viral RNA due to any residual RNase activity.

**Elution**

The yield of RNA depends on the sample type and the number of cells in the sample. A single elution with 50µl of Elution Solution will provide sufficient RNA to carry out multiple amplification reactions.

**Storage**

HiPurA® Pre- filled Plates for Insta NX® Mag96 can be stored at room temperature (15-25°C) for up to 1 year without showing any reduction in performance. Store the DS0192- Carrier RNA in -20°C temperature on receipt. We recommend storing the reconstituted Carrier RNA at -20°C in aliquots to avoid repeated freeze and thaw.

### **Materials needed but not provided**

- RNase- free pipette tips (aerosol barrier recommended)
- Insta NX<sup>®</sup> Mag96 (LA1097)
- Vortex
- Polypropylene sealing film (PR21)

### **Precautions to be taken while handling RNA**

Ribonucleases (RNases) are very stable and active enzymes that generally do not require cofactors to function. Since RNases are difficult to inactivate and even minute amounts are sufficient to destroy RNA, do not use any plasticware or glassware without first eliminating possible RNase contamination. Great care should be taken to avoid inadvertently introducing RNases into the RNA sample during or after the isolation procedure. In order to create and maintain an RNase-free environment, the following precautions must be taken during pretreatment and use of disposable and non- disposable vessels and solutions while working with RNA.

1. Always wear latex or vinyl gloves while handling reagents and RNA samples to prevent RNase contamination from surface of the skin or from dusty laboratory equipment. Change gloves frequently and keep tubes closed whenever possible.
2. Use sterile, disposable plasticware and autoclavable pipettes reserved for RNA work to prevent cross-contamination with RNases from shared equipments.
3. Non-disposable plasticware should be treated before use to ensure that it is RNase-free. Plasticware should be thoroughly rinsed with 0.1M NaOH, 1mM EDTA followed by RNase-free water. Alternatively, chloroform-resistant plasticware can be rinsed with chloroform to inactivate RNases.
4. Glassware used for RNA work should be cleaned with a detergent, thoroughly rinsed, and oven baked at 240°C for four or more hours before use. Alternatively, glassware can be treated with DEPC (Diethyl pyrocarbonate). Fill glassware with 0.1% DEPC (0.1% in water), allow to stand overnight at 37°C, and then autoclave or heat to 100°C for 15 min to eliminate residual DEPC.
5. Electrophoresis tanks should be cleaned with detergent solution (e.g., 0.5% SDS), thoroughly rinsed with RNase-free water, and then rinsed with ethanol and allowed to dry.
6. Solutions (water and other solutions) should be treated with 0.1% DEPC.

### **General Preparation Instructions**

#### **1. Thoroughly mix reagents**

Examine the reagents for precipitation. If any kit reagent forms a precipitate (other than enzymes), warm at 55-65°C until the precipitate dissolves and allow cooling to room temperature (15-25°C) before use.

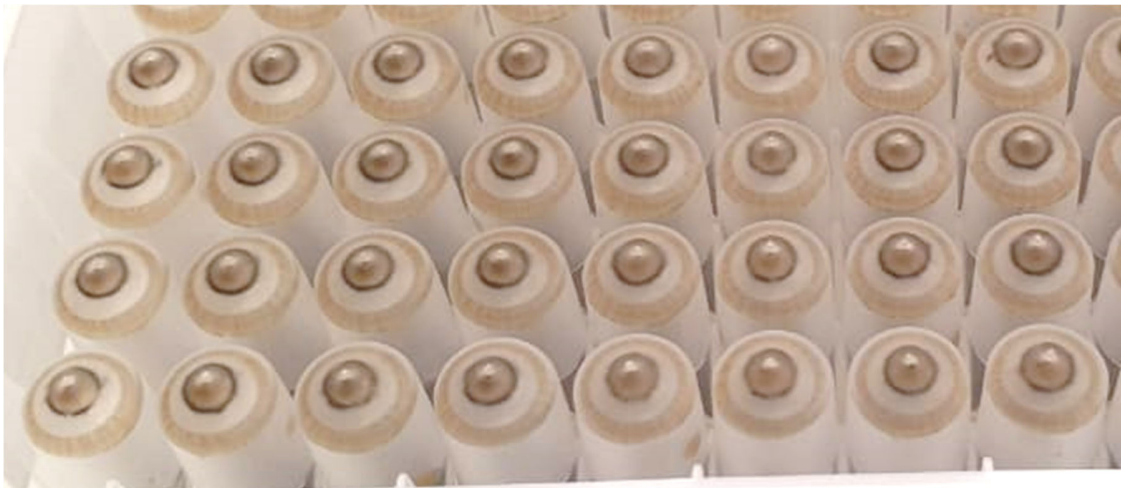
2. Ensure that clean & dry Nuclease-free tubes and tips are used for the procedure.

#### **3. THE MAGNETIC BEADS ARE SETTLED AT THE BOTTOM OF THE PLATE. VIGOROUSLY SHAKE MAGNETIC BEADS PLATE IN HORIZONTAL DIRECTION FOR 20-30 TIMES AND THEN IN VERTICAL DIRECTION 20-30 TIMES BEFORE USE.**

**CHECK THAT THE MAGNETIC BEADS ARE COMPLETELY DISLODGED BY INVERTING THE PLATE.**

**NOTE: MAGNETIC BEADS SHOULD FORM A HOMOGENOUS SUSPENSION. NO PELLETS SHOULD BE OBSERVED. RNA EXTRACTION PROCESS MIGHT GET AFFECTED IF THE SOLUTION IS NOT HOMOGENOUS.**

**BEFORE SHAKING**



**AFTER SHAKING**



**4. Reconstitute Carrier RNA**

<b>Carrier RNA</b>	<b>Elution Buffer (RNase free water)</b>
3.75 mg	3.75 ml


Dissolve Carrier RNA thoroughly by pipetting. We recommend storing the reconstituted Carrier RNA at -20°C in aliquots to avoid repeated freeze and thaw.

## Specimen Handling and Collection

Collect nasopharyngeal swabs, oropharyngeal swab or nasal aspirate in a sterile container containing appropriate viral transport medium. The specimen can be stored at 4°C upto 48 hours after collection. If any delay is expected, it is recommended to store the specimens at -20°C or lower.

**Type of Specimens:** Clinical samples (Bronchoalveolar lavage, tracheal aspirate, sputum, nasopharyngeal swab, oropharyngeal swab, nasopharyngeal wash/aspirate or nasal aspirate in viral transport medium and other body fluids)

### Set up processing plates as follows:

1. Switch on the UV light for 10 minutes prior to use.
2. Select MB615MA program.
3. Click on the **flower icon**  on the right corner of the screen.
4. Remove the seal from the Plate 3 (PF3).

**NOTE: Take care while peeling off the seal. Hold the plate firmly by your left hand and then peel off the seal by holding it in your right hand without shaking the plate.**

5. Add 200µl of sample, 5µl of Proteinase K (DS0013), 5µl of Carrier RNA (DS0192) in each well of Plate 3 (PF3).

**NOTE: The procedure is optimized for use with 200µl samples but upto 400µl sample can be used.**

**NOTE: Reconstitute Carrier RNA (Refer General Preparation Instructions)**

6. Select plate position 3 on the screen.
7. Open the door of Insta NX® Mag96 machine.
8. Place the plate on 3<sup>rd</sup> position onto the machine after adding the above mentioned solutions.
9. Select plate position 5 on the screen.
10. Remove the seal from the Plate 5 (PF5) and place the plate on 5<sup>th</sup> position onto the machine.
11. Select plate position 6 on the screen.

**NOTE: VIGOROUSLY SHAKE MAGNETIC BEADS PLATE (PF6) IN HORIZONTAL DIRECTION FOR 20-30 TIMES AND THEN IN VERTICAL DIRECTION 20-30 TIMES BEFORE USE. CHECK THAT THE MAGNETIC BEADS ARE COMPLETELY DISLODGED BY INVERTING THE PLATE.**

12. Remove the seal from the Plate 6 (PF6) and place the plate on 6<sup>th</sup> position onto the machine.
13. Select plate position 7 on the screen.
14. Remove the seal from the Plate 7 (PF7) and place the Plate 7 (PF7) on 7<sup>th</sup> position onto the machine. Insert Magnetic Tip comb for Insta NX® Mag96 (LA1097A).
15. Select plate position 8 on the screen.
16. Remove the seal from the Plate 8 (PF8) and place the plate on 8<sup>th</sup> position onto the machine.

17. Close the door of the machine.
18. Click on the **RUN** button on the home screen.
19. After the run is complete, discard the Magnetic tip comb for Insta NX® Mag96 (LA1097A). Remove all the 96 Deep Well Plate for Insta NX® Mag96 and Plate 8 (PF8) from the position. Discard all 96 Deep Well Plate for Insta NX® Mag96. The Plate 8 (PF8) contains pure eluted RNA. Seal the plate with sealing film (not provided).

**NOTE:** A small amount of magnetic beads may be observed in the final eluate at the bottom of the tube. Avoid transferring these magnetic beads to your PCR reaction mixture.

**Storage of the eluate with purified RNA:** The recommended storage temperature for the eluted RNA is -80°C. Avoid repeated freezing and thawing of the sample which may cause denaturing of RNA.

### **Warning**

Certified for *in vitro* Diagnostic Use (IVD). Not for Medicinal Use. Read the procedure carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

### **Limitations**

The yield of RNA depends upon the type and the volume of starting material used.

### **Performance and Evaluation**

The yield and efficiency of purification is determined by performing Real- Time PCR.

### **Quality Control**

Each lot of HiMedia's HiPurA® Pre- filled Plates for Insta NX® Mag96 is tested against predetermined specifications to ensure consistent product quality.

### **Safety Information**

The HiPurA® Pre- filled Plates for Insta NX® Mag96 is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

### **Disposal**

User must ensure safe disposal by autoclaving and/ or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed off in accordance with current laboratory techniques.

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Please refer disclaimer Overleaf.

## Technical Assistance

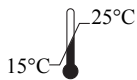
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In vitro diagnostic medical device



CE Marking



Storage temperature



Do not use if package is damaged



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