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Total RNA Purification 96-Well Kit - Supplementary Protocol for Isolating Viral RNA from Swab Samples
Product #24300, 24350

Customer-Supplied Reagents and Equipment
You must have the following in order to use the Total RNA Purification 96-Well Kit:

For All Protocols

- For ***Vacuum Format***:
  - Vacuum manifold with vacuum pump capable of generating a minimum pressure of -650 mbar or -25 in. Hg (such as Whatman UniVac 3 Vacuum to Collect Manifold)
  - Sealing tape or pads

- For ***Centrifuge Format***:
  - Centrifuge with rotor for 96-well plate assembly (such as Thermo Fisher IEC Centra CL3 series or Beckman GS-15R)
- 96 - 100% ethanol
- β-mercaptoethanol (optional)
- Collection/Waste Tray for vacuum manifold or 96-well bottom plate (single or 96-well format) for centrifugation. Two 96-Well Collection Plates are provided with the kit.

For Processing Fresh Swabs:

- One additional bottle of Buffer RL (40mL - Product# 90055) is required

Lysate Preparation from Nasal or Throat Swabs

Notes Prior to Use

- Body fluid of all human and animal subjects is considered potentially infectious
- All necessary precautions recommended by the appropriate authorities in the country of use should be taken when working with these samples.
- It is important to work quickly during this procedure.

A. Lysate Preparation (Fresh Swabs)

a) Add 600 µL of Buffer RL to an RNase-free microcentrifuge tube (not provided).
b) Gently brush a sterile, single-use cotton swab inside the nose or mouth of the subject.
c) Using sterile techniques cut the cotton tip where the nasal or throat cells were collected and place into the microcentrifuge tube containing the Buffer RL. Close the tube. Vortex gently and incubate for 5 minutes at room temperature.
d) Using a pipette, transfer the lysate into another RNase-free microcentrifuge tube (not provided). Note the volume of the lysate.
e) Add an equal volume of 70% ethanol (provided by the user) to the lysate volume collected (100 µL of ethanol is added to every 100 µL of lysate). Vortex to mix. Proceed to **Section 2 - Total RNA Purification from All Types of Lysate** in the product manual for Cat #24300 or Cat #24350.

B. Lysate Preparation (Preserved Swabs)

For the isolation of RNA from swabs collected on Norgen's Swab Collection and Total Nucleic Acid Collection and Preservation System (Cat #68800), Norgen's Total Nucleic Acid Preservation Tube (Cat #68803) or from swabs collected on viral transport media we recommend the procedure below.

a) Mix the preserved swab sample by vortexing the tube for 10 seconds.
b) Transfer 250 µL of the preservative to an RNase-free microcentrifuge tube.
c) Add 250 µL of Buffer RL. Vortex the tube for a few seconds to mix.
d) Add 250 µL of 96-100% ethanol. Vortex briefly to mix. Proceed to **Section 2 - Total RNA Purification from All Types of Lysate** in the product manual for Cat #24300 or Cat #24350.

Technical Support
Contact our Technical Support Team between the hours of 8:30 and 5:30 (Eastern Standard Time) at (905) 227-8848 or Toll Free at 1-866-667-4362.

Technical support can also be obtained from our website (www.norgenbiotek.com) or through email at techsupport@norgenbiotek.com.

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