



Made in India

# VD<sub>x</sub> Viral Transport Kit

Viral Transport Medium &  
Sterile Synthetic Swabs

## Intended Use

VD<sub>x</sub> Viral Transport Kit is used for the collection and transport of clinical specimens of COVID -19.

## Introduction

VD<sub>x</sub> Viral Transport Kit, is a specially designed product for the collection and transport of COVID -19 specimens, in an active form to the laboratory for isolation. It is designed to maintain the viability and the virulence of the viral sample.

VD<sub>x</sub> Viral Transport Medium, comprises a balanced salt solution and a protective protein, buffers to control the pH along with antibiotics to control microbial and fungal contamination. Phenol red is used as a pH indicator. The medium also contains a cryoprotectant which helps in preserving the virus, if specimens are frozen for prolonged storage .

The kit contains two sterile, synthetic swabs with break - point for the collection of the specimens from the nose and /or throat. The swabs allow efficient collection and release of the particulate matter helping in maximizing the sensitivity of serological and molecular detection assays.

## Kit Contents

1. Viral Transport Medium: 50 x 3ml Tubes.
2. Sterile Synthetic Swabs with break-point : 50 x 2 Nos.

## Procedure

### 1. Collection of Samples

- a. For an accurate detection of viral disease, it is important that the infectivity of the virus is preserved after sample collection .
- b. The infectivity of the virus decreases over time and the decay rate is generally a function of the temperature.
- c. Stability of samples is enhanced by cooling, therefore samples should be kept at 2-8°C.
- d. The probability of a successful isolation is more, if the samples are processed immediately after collection and the viral load in the sample is more.

- e. Viral load is maximum if the samples are collected immediately after the onset of clinical symptoms and before the administration of antiviral medications.

### 2. Directions

1. Cut open the pouch to remove the swab.
2. Specimen can be collected with the swab in the following manner:
  - a. Nasal Swab
    - Insert the dry swab into the nostril and leave in place for a few seconds.
    - Slowly withdraw it with a rotating motion.
  - b. Nasopharyngeal Swab
    - Insert the dry swab into the nostril and back to the nasopharynx . Leave in place for a few seconds.
    - Slowly withdraw the swab with a rotating motion.
  - c. Throat Swab
    - Ask the patient to open his/her mouth. Swab the back of the throat near the tonsils thoroughly.
3. Insert the swab stick into the tube containing the Viral Transport Medium and bend the swab stick near the break-point .
4. Close the cap tightly.
5. Label the sample correctly with the name of the patient, time and date of collection.
6. Transport the samples immediately to the laboratory for processing.

### Sample Transportation

- Samples should be transported to the laboratory as soon as possible.
- Samples can be refrigerated at 2 - 8°C after collection or can be transported at 2 - 8°C on wet ice within 48 hours.
- If a long delay is expected in transit and processing, samples should be transported on dry ice and should be frozen at -70°C.

## Precautions

- Isolation of the virus will largely depend on proper specimen collection, timing of sample collection and processing of the sample.
- Specimen collection should be done in the acute phase of illness.
- Do not use the product if
  - (a) there is change in the colour of the medium,
  - (b) there is evidence of leakage,
  - (c) there are other signs of deterioration.
- To maintain infectivity of the virus, it is important that temperature be properly maintained during sample collection to processing.
- Avoid repeated freeze-thaw cycles of collected samples.
- It is recommended to refer to standard procedures and published protocols for sample collection and processing.

## Quality Control Specifications

1. Appearance : Pink coloured, clear solution.
2. pH at 25°C :  $7.3 \pm 0.3$
3. Osmolality in mOsm/Kg H<sub>2</sub>O: 500.00 - 600.00
4. Sterility : No bacterial or fungal growth was observed.

## Storage and Shelf Life

- Store at 2 - 30°C.
- Use before expiry date mentioned on the product label.

**IVD** For *in vitro* Diagnostics Use Only.

**CE** CE marked

 Do not use if the product is damaged.

 Read instructions before use.



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