

Teknova Viral Transport Medium

Teknova Viral Transport Medium has not been reviewed by the FDA.



INTENDED USE

Teknova Viral Transport Medium is intended for the transport of clinical specimens containing upper respiratory viruses from collection sites to testing sites for measurement of viral particles in the samples using molecular or antigen assays.

Teknova Viral Transport Medium is recommended for use as a non-propagating transport culture medium for clinical specimens.

SUMMARY AND EXPLANATION

The US Centers for Disease Control and Prevention (CDC) recommends the use of viral transport media to collect and store respiratory disease specimens [1]. Teknova Viral Transport Medium is manufactured and validated in accordance with the CDC's standard operating procedure, which was created in response to COVID-19 [2].

PRINCIPLE

Teknova Viral Transport Medium maintains organism viability for up to 72 hours at 2–8°C. Antibiotics and fungicides present in the medium inhibit bacterial and fungal growth without degrading viruses and other respiratory disease-causing agents.

REAGENTS

2% Inactivated Fetal Bovine Serum

100 µg/mL Gentamicin

0.5 µg/mL Amphotericin B (Fungizone)

Prepared in Hanks Balanced Salt Solution

Precautions: For *In Vitro* Diagnostic Use.

WARNING AND PRECAUTIONS: For *In Vitro* Diagnostic Use. Follow standard precautions and handle using proper personal protective equipment and safe laboratory procedures. Do not ingest the medium. Not suitable for any other application than the intended use. Avoid multiple freeze-thaw cycles.

Specimen stability for this media was not validated for recovery of viral infectious particles using a culture-based assay.

For use only by qualified healthcare workers for point-of-care testing covered by a clinical laboratory's CLIA certification for high-complexity testing.

Not for home use, including at-home testing or specimen collection.

This device is to be used by trained and qualified professionals.

STORAGE: Ready to use. Store refrigerated at 2–8°C.

PRODUCT DETERIORATION: Do not use if visual signs of deterioration (e.g., evaporation, discoloration) are observed. Check expiration date before use.

QUALITY CONTROL

Teknova Viral Transport Medium is tested for pH (USP<791>), conductivity (USP<644>), and sterility. Sterility is assessed by applying the solution to the surface of sheep blood agar plates and incubating for 48 hours at 37°C ± 2°C. The plate is checked for growth daily. Functional testing should be performed by the user to determine efficacy.

PROCEDURE

Collect the specimen following the CDC Influenza Specimen Collection guidelines [3], then place the swab into the Teknova Viral Transport Medium. Store the specimens at 2–8°C for up to 72 hours after collection. Specimens can be stored at –70°C or below if there is a delay in testing or shipping [1].

PERFORMANCE

Viral particle recovery studies were performed using Teknova Viral Transport Medium with Influenza A virus (H3N2, ATCC VR-1679). The media was refrigerated (2–8°C) or held at room temperature (20–25°C) before conducting the viral recovery studies. Virus suspension (5 µL) was added to each vial of Teknova Viral Transport Medium. The vials were refrigerated. Viral recovery was assessed at 0, 24, 48, and 72 hours. At each time point, RNA was extracted from the media using a standard extraction protocol and quantified by real-time RT-PCR (Table 1).

Table 1. Teknova Viral Transport Medium (VTM) stored refrigerated or at room temperature maintained viral RNA stability at 2–8°C for 72 h.

Storage temperature of VTM before viral studies	C _q values at specified timepoints			
	0 h	24 h	48 h	72 h
2–8°C	24.59	25.26	25.31	25.15
20–25°C	24.72	25.27	25.01	24.93

ORDERING INFORMATION

Cat. No.	Description*	GTIN
4V1030	Teknova Viral Transport Medium, 3 mL, 100 tubes per pack	756029391956
4V1010	Teknova Viral Transport Medium, 1000 mL	756029391949

* Additional sizes are available at [teknova.com/VTM-CDC](https://www.teknova.com/VTM-CDC).

REFERENCES

1. **Interim guidelines for collecting, handling, and testing clinical specimens for COVID-19.** US Centers for Disease Control and Prevention. Updated October 8, 2020. [Accessed October 10, 2020]
2. **Preparation of viral transport medium.** [PDF] US Centers for Disease Control and Prevention. (2020) [Accessed October 10, 2020]
3. **Influenza specimen collection.** [PDF] US Centers for Disease Control and Prevention. [Accessed October 10, 2020]

