

Teknova Active Viral Transport Medium (ATM)

Teknova Active Viral Transport Medium (ATM) has not been reviewed by the FDA.



INTENDED USE

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

Teknova ATM 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 medium to collect and store respiratory disease specimens [1]. Teknova ATM is a modified version of the CDC recommended formulation and is manufactured under ISO 13485:2016.

PRINCIPLE

The room temperature stable medium maintains organism viability for up to 72 hours at room temperature and 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

Bovine Serum Albumin
Phenol Red
Sucrose
L-Glutamic Acid

HEPES Free Acid
Gelatin
Gentamicin
Amphotericin B (Fungizone)

Prepared in Hanks Balanced Salt Solution

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 clinical laboratory 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 at 20–25°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 ATM 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, tryptic soy agar, and Sabouraud agar plates. All plates are incubated for 48 hours, sheep blood agar and tryptic soy plates at 37°C, and Sabouraud agar plates at 28°C. The plates are checked for growth daily. Additional quality control is performed by bioburden testing (USP<61>). Functional testing should be performed by the user to determine efficacy.

PROCEDURE

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

PERFORMANCE

Viral particle recovery studies were performed using Teknova ATM with Influenza A virus (H3N2, ATCC VR-1679). The media was held at room temperature (20–25°C) before conducting the viral recovery studies. Virus suspension (5 µL) was added to each vial of Teknova ATM. The vials were refrigerated (2–8°C) or kept at room temperature (20–25°C). 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).

Teknova ATM maintained viral RNA stability for 72 hours when refrigerated and at room temperature.

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

Storage temperature of ATM during viral studies	Lot	C _i values at specified timepoints			
		0 h	24 h	48 h	72 h
2–8°C	1	26.55	27.01	26.79	27.18
	2	26.66	27.19	27.09	27.29
	3	26.65	27.05	27.47	27.24
20–25°C	1	26.55	27.16	27.27	27.37
	2	26.66	27.17	27.26	27.51
	3	26.65	27.39	27.36	27.50

ORDERING INFORMATION

Cat. No.	Description*	GTIN
6A2020	Teknova Active Viral Transport Medium, 3 mL, 100 tubes per pack	616859072558

* Additional information is available at www.teknova.com/ATM.

REFERENCES

1. **Interim guidelines for collecting, handling, and testing clinical specimens for COVID-19.** US Centers for Disease Control and Prevention. Updated 2021-02-26. [Accessed 2021-04-05]
2. **Influenza specimen collection.** [PDF] US Centers for Disease Control and Prevention. (2020) [Accessed 2021-04-05]

