



Product Sheet

# Hepatitis A virus (ATCC® VR-1357™)

Please read this FIRST

Storage Temp.  
**-70°C or colder**

---

Biosafety Level  
**2**

## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Hepatitis A virus (ATCC® VR-1357™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain:** PA21

**Classification:** *Picornaviridae, Hepatovirus*

**Original Source:** From liver tissue of a naturally infected owl monkey in Panama

**Depositor:** LN Binn

## Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

## Propagation

**Propagation Host:**

BSC-1 (ATCC® CCL-26™)

**Effect on Host:**

No CPE, detect by IF, ELISA or PCR

**Medium:**

EMEM (ATCC® 30-2003) + 2% FBS (ATCC® 30-2020) + 2.5 µg/mL Amphotericin B (ATCC® 30-2301)

**Growth Conditions**

**Temperature:** 35°C

**Incubation:** 20 to 28 days at 35°C, a 5% CO<sub>2</sub> in air atmosphere is recommended.

**Recommendations for Infection:** For best results cells should be 24 to 48 hours old and 70% - 80% confluent (not 100% confluent).

## Comments

PA21 is one of the better characteristic primate HAV strains that differ significantly from the HM175- like isolates. This holding is contaminated with fungus that can, with difficulty, be controlled by Amphotericin B. Prepared vials should be freeze-thawed 3 times to release the virus from the cells, spun to remove cellular debris and then filtered through a 0.2 mm filter before use to reduce problems with the fungal contamination.

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Key Abbreviations

°C, degrees Celsius

bp, base pairs

BSC-1, African green monkey (*Cercopithecus aethiops*) kidney cells

cat, catalog

CO<sub>2</sub> (CO<sub>2</sub>), carbon dioxide

CPE, cytopathic effect

ELISA, enzyme-linked immunosorbent assay

EMEM, Eagles minimum essential medium

FBS, fetal bovine serum

FITC, fluorescein isothiocyanate

H, human

HAV, hepatitis A virus

IF, immunofluorescence

IgG, immunoglobulin G

MAb, monoclonal antibody

Mk, monkey

mL, milliliter

PA21, Panama inocula number 21

PCR, polymerase chain reaction

RNA, ribonucleic acid

RT, reverse transcriptase

## Biosafety Level: 2



Product Sheet

# Hepatitis A virus (ATCC® VR-1357™)

**Please read this FIRST**



---



**Intended Use**

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

**Citation of Strain**

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Hepatitis A virus (ATCC® VR-1357™)

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

**ATCC Warranty**

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

**Disclaimers**

This product is intended for laboratory research purposes only. It is not intended for use in humans. While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate. This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
© ATCC 2015. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [10/01]

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor