





Product Sheet

# Hepatitis A virus (ATCC® VR-1357™)

## Please read this FIRST



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## 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™)

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## 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:**

**Recommended Host:** BSC-1 (ATCC CCL-26)

**Effect on Host:**

Yes, in vivo effects: No CPE; Detect antigen by IF, ELISA or PCR

No CPE, detect by IF, ELISA or PCR

**Medium:**

Virus growth medium: EMEM (ATCC 30-2003) + 2%FBS (ATCC 30-2020) + 2.5mg/mL Amphotericin B (ATCC 30-2301)

**Growth Conditions**

**Atmosphere:** 5% CO<sub>2</sub> in air recommended

**Temperature:** 35°C

**Incubation:** 20 - 28 days; For best results cells should be 24-48 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 0.2mm 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

AGMkK, African green monkey kidney

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

FRhK4 & 6, Fetal Rhesus monkey (*Macaca mulatta*) kidney cells

H, human

HAV, hepatitis A virus

IF, immunofluorescence

IgG, immunoglobulin G

MAB, monoclonal antibody

Mk, monkey


mL, milliliter



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Storage Temp.  
**-70°C or colder**

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Biosafety Level  
**2**

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PA21, Panama inocula number 21

PCR, polymerase chain reaction

RNA, ribonucleic acid

RT, reverse transcriptase

TC, tissue culture

TCID<sub>50</sub>(TCID<sub>50</sub>), The Tissue Culture Infectious Dose

50% endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

mg (ug), microgram

mm (um), micrometer

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## Biosafety Level: 2

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.

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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).

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