



# Human echovirus 21

VR-1062™

## Description

**Strain designation:** Farina

**Deposited As:** Echovirus 21

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

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## Intended Use

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

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## BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and

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will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Host:** HAm cells; **Host Range:** HAm, MkK, HEK, human embryonic skin-muscle, HED cells; human amnion; human embryonic diploid cells; HeLa cells (ATCC CCL-2); suckling mouse

**Effects:** CPE

**Incubation:** 2-4 days

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## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

CPE appears later and is less marked in MkK than in HAm cell cultures but the titer and CPE increase on serial passage

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**Key Abbreviations:** CPE, Cytopathic effect; HAm, Human amniotic cells; HED, Human embryonic diploid cells; HEK, Human embryonic kidney cells; MkK, Monkey kidney; TC, Tissue culture; TCID<sub>50</sub>, Median tissue culture infective dose

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Human echovirus 21 (ATCC VR-1062)

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## References

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

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The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

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Product Sheet

## Revision

This information on this document was last updated on 2022-09-24

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