



# Human Coxsackievirus A 21

VR-850™

## Description

Human Coxsackievirus A 21 strain Kuykendall [V-024-001-012] is propagated in WISH cells (ATCC CCL-25). This strain was isolated in 1952 from the stool of a 17-year-old human male with paralytic illness and was deposited by NIH/NIAID. This product has applications in respiratory disease research.

**Strain designation:** Kuykendall [V-024-001-012]

**Deposited As:** coxsackievirus A21

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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 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:** WISH (ATCC CCL-25)

**Effects:** cell rounding; cell sloughing; CPE

**Complete medium:**

EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)

**Temperature:** 37°C

**Atmosphere:** 95% Air, 5% CO<sub>2</sub>

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

**Incubation:** 2 to 3 days at 37°C, a 5% CO<sub>2</sub> in air atmosphere is recommended

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## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

Identical to Coe virus. (Schmidt, N.J. et al., Proceedings of the Society for Experimental Biology and Medicine 107: 63, 1961) Complete destruction of cell sheet in HAM cell cultures occurs within 3 days.

**Key Abbreviations:** bp, Base pairs; CO<sub>2</sub>, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; H, Human; HAM, Human amniotic cells; HE, Human embryonic cells; HeLa, Human cervical carcinoma cells; mL, Milliliter; NCBI, National Center for Biotechnology Information; NIAID, National Institute of Allergy and Infectious Diseases; NIH, National Institutes of Health; RT-PCR, reverse-transcriptase polymerase chain reaction; SM, Suckling mouse; TC, Tissue culture; TCID<sub>50</sub>, Median tissue culture infective dose; WISH, Human epithelial cell line

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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 Coxsackievirus A 21 (ATCC VR-850)

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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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