Human coronavirus 229E

VR-740™

Description

Human coronavirus 229E is propagated in MRC-5 cells (ATCC CCL-171). This strain was isolated from the nasal and throat swabs of a man with a mild upper respiratory illness. The strain has applications in respiratory disease research and does not result in hemolysis.

Strain designation: 229E
Common name: Human coronavirus
Deposited As: Human coronavirus 229E

Storage Conditions

Product format: Frozen
Storage conditions: -70°C or colder

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.

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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: MRC-5 (ATCC CCL-171)
Effects: cell rounding; cell sloughing; CPE
Complete medium: EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)
Temperature: 35°C
Atmosphere: 95% Air, 5% CO_2
Recommendations for infection: For best results cells should be 24 to 48 hours old and 80-90% confluent (not 100% confluent).
Incubation: 2-7 days, a 5% CO_2 in air atmosphere is recommended.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Key Abbreviations: °C, Degrees Celsius; CO_2, Carbon dioxide; CPE, Cytopathic effect

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Human coronavirus 229E (ATCC VR-740)

References

References and other information relating to this material are available at www.atcc.org.

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Revision

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