Strain: OC43
Classification: Coronaviridae, Betacoronavirus
Common Name: Human coronavirus OC43
Original Source: Man with cold-like illness. Treated to remove mycoplasma at ATCC.
Depositor: JO Fleming, University of Wisconsin, Madison

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

Propagation

Propagation Host:
HCT-8 (ATCC® CCL-244™)

Effect on Host:
CPE, vacuolization of cytoplasm and sloughing

Medium:
RPMI-1640 (ATCC® 30-2001™) + 2% HS (ATCC® 30-2040™)

Growth Conditions

Temperature: 33°C

Recommendations for Infection:
For best results, infection should be performed on an 80-90% confluent, 18-48 hour old cellular monolayer. Prepare dilution of virus in minimum amount of volume (e.g. 1 mL per 25 cm²), optimized for propagation (e.g. MOI 0.01-0.1 recommended). Wash monolayer two times with PBS or serum free medium prior to inoculation. Adsorb virus dilution for 1-2 hours at 33°C in a humidified 5% CO₂ atmosphere, while rocking continuously. End adsorption by adding virus growth medium.

Incubation: 4-6 days at 33°C in a humidified 5% CO₂ atmosphere, rocking continuously, until CPE is progressed through 80% of the monolayer.

VR-1558™ is a TC-adapted item derived from virus passaged in mice (ATCC® VR-759™). Cleaned of mycoplasma with MRA. No antigenic cross reaction with Human coronavirus 229E (ATCC® VR-740™).

References

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

Key Abbreviations

CPE, cytopathic effect
HCT-8, adult human colon epithelial cells
HS, horse serum
MOI, multiple of infection
MRA, mycoplasma removal agent
PBS, Phosphate buffered saline
RPMI, Roswell Park Memorial Institute
TC, tissue culture

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.

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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formulation is used, the ATCC warranty for viability is no longer valid.

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Additional information on this culture is available on the ATCC web site at www.atcc.org.

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