Human coronavirus 229E (ATCC® VR-740™)

**Strain:** 229E
**Classification:** Coronaviridae, Coronavirus
**Common Name:** Human coronavirus
**Original Source:** Nasal and throat swabs from man with mild upper respiratory illness
**Depositor:** HS Kaye

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

**Propagation**

**Propagation Host:** MRC-5 (ATCC® CCL-171™)

**Effect on Host:** CPE, rounding and sloughing. Starts as individual cell rounding that spreads, but over time uninfected cells repopulate monolayer.

**Medium:** EMEM (ATCC® 30-2003™) + 2% FBS (ATCC® 30-2020™)

**Growth Conditions**

**Temperature:** 35°C

**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% CO₂ in air atmosphere is recommended.

**References**

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

**Key Abbreviations**

°C, degrees Celsius
CO₂ (CO2), carbon dioxide
CPE, cytopathic effect

**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 If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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

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