**Human rhinovirus 16 (ATCC® VR-283™)**

**Intended Use**

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

**Citation of Strain**

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Human rhinovirus 16 (ATCC® VR-283™)

**Propagation**

**Propagation Host:**

H1-HeLa (ATCC® CRL-1958™)

**Effect on Host:**

CPE, cell rounding and sloughing

**Medium:**

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

**Growth Conditions**

**Temperature:** 33°C

**Recommendations for Infection:** Plate cells 24-48 hours prior to infection and infect when cultures are 80-90% confluent. Remove medium and inoculate with a small volume (e.g. 1 mL per 25 cm²) of virus diluted to provide an optimal MOI (e.g. 0.1). Adsorb 1-2 hours at 33°C in a humidified 5% CO₂ atmosphere while continuously rocking. End adsorption by adding virus growth medium.

**Incubation:** 1-7 days in a humidified 5% CO₂ atmosphere until 90% of the culture shows CPE.

**Comments**

The pH of the medium should be maintained in a range of 7.0-7.3. Rocking of cultures during adsorption may enhance viral replication and CPE. Deposited as Rhinovirus HRV-16. HA is not demonstrated. Not inactivated by ether.

**References**

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

**Key Abbreviations**

°C, degrees Celsius

CO₂ (CO2), carbon dioxide

CPE, cytopathic effect

EMEM, Eagle's minimum essential medium

FBS, fetal bovine serum

HA, hemagglutination

MOI, multiplicity of infection

**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.

Disclaimers

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org.

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

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