**Strain:** 1059  
**Classification:** Picornaviridae, Enterovirus, Rhinovirus B  
**Original Source:** Throat swab from young adult with upper respiratory illness, South Carolina, 1959  
**Depositor:** RM Conant, VV Hamparian, The Ohio State University; ATCC

### Propagation

**Host:**
H1-HeLa (ATCC® CRL-1958™)

**Effect on Host:**
CPE, rounding and sloughing

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

**Growth Conditions**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>33°C</th>
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**Recomendations for Infection:**
Plate cells 24-48 hours prior to infection and infect when cultures are 70-85% confluent. Remove medium and inoculate with a small volume of virus (e.g., 1 mL per 25 cm²) diluted to provide an optimal MOI (e.g., 0.1). Adsorb 1-2 hours at 33°C in a humidified 5% CO₂ atmosphere while rocking continuously. End adsorption by adding virus growth medium.

**Incubation:**
1-5 days while rocking continuously

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**ATCC® VR-284PQ™** is a high-titer, purified, live virus suspended in 0.01% BSA + 25 mM HEPES + 10 mM NaCl + DPBS. This product was prepared from ATCC® VR-284™ via purification through sucrose gradient centrifugation, and is devoid of cellular debris and contaminants.

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**References and Other Information:**

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

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**Key Abbreviations**

- °C, degrees Celsius
- BSA, bovine serum albumin
- CO₂ (CO2), carbon dioxide
- CPE, cytopathic effect
- DPBS, Dulbecco's phosphate-buffered saline
- EMEM, Eagle's minimum essential medium
- FBS, fetal bovine serum
- HEPES, 4-(2-hydroxyethyl)-1-piperazinethanesulfonic acid
- MOI, multiplicity of infection

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**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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**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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