Strain: OSU (virulent, gut origin)
Classification: Reoviridae, Rotavirus
Original Source: clinical specimen - animal
Ohio, United States
Depositor: EH Bohl

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

Propagation

Propagation Host:
Recommended Host: MA-104 (ATCC CRL-2378.1)

Effect on Host:
Yes, in vitro effects: Cytopathic effects (some rounding, cell degeneration and sloughing) with addition of pancreatin or trypsin at a level slightly under a toxic dose for the monolayer CPE in TC, some rounding, cell degeneration and sloughing. Diarrhea in small pigs.
Yes, in vivo effects: diarrhea in small pigs

Medium:
Virus growth medium: EMEM (30-2003) + 8mg/mL Gibco trypsin (Invitrogen 27250-018) -DO NOT USE SERUM

Growth Conditions
Atmosphere: 5% CO2 in air recommended
Temperature: 36.0°C
Duration: 4-7 days with some rocking; For best results cells should be 24 to 72 hours old and lightly 100% confluent. Pretreatment of virus with trypsin is needed to activate virus before inoculation.

[Note: Do not use serum in the culture medium.]

USDA permit required. Serotype 5(G5) by antigenic analysis of VP7 and serotype P7 by antigenic analysis of VP4. Isolated in gnotobiotic pigs. Preparation is of gut origin and its viral ancestry is of gut origin only.

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

Key Abbreviations

- AB, antibody
- CO2 (CO2), carbon dioxide
- CPE, cytopathic effect
- EMEM, Eagles minimum essential medium
- FA, fluorescent antibody
- FBS, fetal bovine serum
- FITC, fluorescein isothiocyanate
- G5, glycoprotein serotype
- IgG, Immunoglobulin type G
- MA-104, embryonic rhesus monkey kidney
- MAB, monoclonal antibody
- mg (ug), microgram
- MkK, monkey kidney
- mL, milliliter
- MS, mouse
- OSU, Ohio State University
- P, protease sensitive serotype
- PBS, phosphate buffered saline
- TC, tissue culture
- TCID₅₀(TCID[50]), The Tissue Culture Infectious Dose
50% endpoint is the 50% infectious endpoint in cell culture. The TCID_{50} is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID_{50} provides a measure of the titer (or infectivity) of a virus preparation.

USDA, United States Department of Agriculture
VP4 & VP7, outer capsid structural viral proteins
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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

This product is intended for laboratory research purposes 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: Porcine rotavirus (ATCC® VR-892™)