



Porcine rotavirus

VR-892™

Description

Porcine rotavirus strain OSU is propagated in MA-104 Clone 1 cells (ATCC CRL-2378.1). This strain was isolated in gnotobiotic pigs in Ohio and is serotype 5 (G5) by antigenic analysis of VP7 and serotype P7 by antigenic analysis of VP4.

Strain designation: OSU (virulent, gut origin)

Deposited As: Porcine rotavirus

Serotype: Serotype 5 (G5) by antigenic analysis of VP7 and serotype P7 by antigenic analysis of VP4

Storage Conditions

Product format: Frozen

Storage conditions: -70°C or colder

Intended Use

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

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local

or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: MA-104 Clone 1 (ATCC CRL-2378.1)

Effects: cell degeneration; cell rounding; cell sloughing; CPE; diarrhea

Complete medium:

EMEM (ATCC 30-2003) + 8 µg/mL Gibco Trypsin (Invitrogen 27250-018). DO NOT USE SERUM.

Temperature: 36°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: 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.

Incubation: 4 to 7 days at 36°C with rocking, a 5% CO₂ in air atmosphere is recommended.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

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.

Key Abbreviations: AB, Antibody; CO₂, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FA, Fluorescent antibody assay; FBS, Fetal bovine serum; FITC, Fluorescein isothiocyanate conjugate; G5, glycoprotein serotype; IgG, Immunoglobulin G; MA-104, Embryonic rhesus monkey kidney cells; MAb, Monoclonal antibody; µg, Microgram; MkK, Monkey kidney; mL, Milliliter; M (Ms), Mouse; OSU, Ohio State University; P, Protease sensitive serotype; PBS, Phosphate-buffered saline; TC, Tissue culture; TCID₅₀, Median tissue culture infective dose; USDA, United States Department of Agriculture; VP4 and VP7, outer capsid structural viral proteins

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Porcine rotavirus (ATCC VR-892)

References

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

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