



Porcine rotavirus

VR-893™

Description

Porcine rotavirus strain OSU is propagated in MA-104 Clone 1 cells (ATCC CRL-2378.1). This strain is serotype 5 (G5) by antigenic typing at VP7 and serotype P7 by antigenic typing at VP4. Preliminary trials in gnotobiotic pigs indicate that this preparation is attenuated.

Strain designation: OSU (attenuated)

Deposited As: Porcine rotavirus

Serotype: Serotype 5 (G5) by antigenic typing at VP7 and serotype P7 by antigenic typing at 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

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: For best results cells should be 24 to 48 hours old and 90% - 100% confluent.

Incubation: 1-4 days; 5% CO₂ in air atmosphere is recommended

Handling Procedures

Mycoplasma contamination: Not detected

Notes

This rotavirus should be grown in the presence of trypsin or pancreatin and NO serum should be used. Preliminary trials in gnotobiotic pigs indicate that this preparation is attenuated, but no back passages have been done. Cross-reacts with group A rotaviruses from other species. Heat labile (56°C, 30min.). Stable at pH 3.0 and to ether.

Key Abbreviations: AB, Antibody; Am.J.Vet. Res., American Journal of Veterinarian Research; CO₂, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FA, Fluorescent antibody assay; FBS, Fetal bovine serum; FITC, Fluorescein isothiocyanate conjugate; IgG, Immunoglobulin G; J. Clin. Microbiol., Journal of Clinical Microbiology; J. Infect. Dis., Journal of Infectious Diseases; MA-104, Embryonic rhesus monkey kidney cells; MDBK, Madin Darby bovine kidney cells; min, Minute; mL, Milliliter; M (Ms), Mouse; OSU, Ohio State University; PBS, Phosphate-buffered saline; PK, Porcine kidney; Pr, Primary; TC, Tissue culture; TCID₅₀, Median tissue culture infective dose; ug, Microgram

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Porcine rotavirus (ATCC VR-893)

References

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

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Revision

This information on this document was last updated on 2024-10-03

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