



Reovirus type 2

VR-215™

Description

Reovirus type 2 strain N.G.R. is propagated in LLC-MK2 Original cells (ATCC CCL-7).

This strain was isolated from the rectal swab of a monkey (P2).

Strain designation: N.G.R.

Deposited As: Reovirus Type 2

Serotype: type 2

Storage Conditions

Product format: Freeze-dried

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: LLC-MK2 Original (ATCC CCL-7)

Host Range: primary monkey kidney

Effects: CPE

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: Plant cells 24-48 hours in advance 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 a MOI of about 0.1. Adsorb 1-2 hours at 37°C in a humidified 5% CO₂ atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

Incubation: 4-5 days

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Agglutinates human type O RBC. Identified as Reovirus, type 2, by HAI assay.

Key Abbreviations: °C, Degrees Celsius; CO₂, Carbon dioxide; CPE, Cytopathic effect; HAI, Hemagglutination inhibition; LLC-MK2, Rhesus monkey kidney cells; MOI, Multiplicity of infection; RBC, Red blood cell; SV, Simian virus

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Reovirus type 2 (ATCC VR-215)

References

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

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