



Product Sheet

Rubella virus (ATCC® VR-315™)

Please read this **FIRST**

Storage Temp.
-70°C or colder

Biosafety Level
2

Intended Use

This product is intended for research use 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: Rubella virus (ATCC® VR-315™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain: M33

Classification: *Togaviridae, Rubivirus*

Common Name: Rubella virus

Original Source: Throat washings from Army recruit, New Jersey, 1961

Depositor: PD Parkman, Walter Reed Army Institute of Research

Batch-Specific Information

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

Propagation

Propagation Host:

BS-C-1 (ATCC® CCL-26™)

Effect on Host:

No CPE produced on production host. Recognized primarily by interference for other viruses (GMK), or production of CF and HA antigens.

Medium:

Virus growth medium: EMEM + 2% FBS (ATCC® 30-2020)

Growth Conditions

Temperature: 35°C

Recommendations for Infection: Plate cells 24 hours prior to infection and infect when cultures are 60-70% 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 35°C in a humidified 5% CO₂ atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

Incubation: 11-15 days

Comments

Rubella virus is 40-80 nm in diameter, ether sensitive and RNA-containing. Titration held on LLC-MK₂ cells (ATCC® CCL-7.1™), for viewable CPE not shown on recommended host.

Vials contain total fluid and material from cell culture infected by virus. The vials will contain cellular debris and possibly cells containing cell-associated virus.

References

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

Key Abbreviations

AB, antibody
BHK-21, baby hamster kidney cells
BS-C-1, Cercopithecus monkey kidney cells
CF, complement fixation
CO₂ (CO2), carbon dioxide
CPE, cytopathic effect
EMEM, Eagles minimum essential medium
FBS, fetal bovine serum
FITC, fluorescein isothiocyanate
GMK, green monkey kidney cells
GP, guinea pig
HA, hemagglutination
IgG, Immunoglobulin type G
LLC-MK₂ (LLC-MK2), rhesus monkey kidney cells
µg (ug), microgram
MAB, monoclonal antibody
mL, milliliter
Mk, monkey
Ms, mouse



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nm, nanometer
Pen, penicillin
RK-13, rabbit kidney cells
RNA, ribonucleic acid
Strep, streptomycin
TC, tissue culture
TCID₅₀(TCID₅₀), The Tissue Culture Infectious Dose

50% endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ 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% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.



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.

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

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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