Strain: New Guinea C  
Classification: Flaviviridae, Flavivirus, Dengue virus  
Original Source: Serum of febrile patient, New Guinea, 1944  
Depositor: CL Wisseman, University of Maryland School of Medicine; Yale Arbovirus Research Unit; National Institute of Allergy and Infectious Diseases; ATCC®  

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

Propagation

Propagation Host: LLC-MK2 Derivative (ATCC® CCL-7.1™)  
Effect on Host: CPE, cell aggregation, sloughing, death  
Medium: EMEM (ATCC® 30-2003™) + 2% FBS (ATCC® 30-2020™)  
Growth Conditions  
Temperature: 37°C  
Recommendations for Infection: Plate cells 24-48 hours prior to infection and infect when cultures are 70-80% 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 37°C in a humidified 5% CO₂ atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.  
Incubation: 6-8 days

ATCC® VR-1584™ was TC-adapted from ATCC® VR-1255™ by passage in LLC-MK2 (ATCC® CCL-7.1™).

References

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

Key Abbreviations

°C, degrees Celsius  
CO₂ (CO2), carbon dioxide  
EMEM, Eagle's minimum essential medium  
FBS, fetal bovine serum

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 If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.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

This product is intended for laboratory research purposes only. It is not intended for use in humans. While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet,
Product Sheet

Dengue virus type 2 (ATCC® VR-1584™)

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: Dengue virus type 2 (ATCC® VR-1584™)

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

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