



Dengue virus type 1

VR-1586™

Description

Dengue virus type 1 strain TH-S-man was tissue culture-adapted from ATCC VR-344. This animal virus can be propagated in Vero cells (ATCC CCL-81) and has applications in vector-borne disease research.

Strain designation: TH-Sman (TC adapted)

Serotype: type 1

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.

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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 submerged 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 submerged 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: Vero (ATCC CCL-81)

Effects: cell rounding; cell sloughing; CPE; death of host animal

Complete medium:

EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)

Temperature: 37°C

Recommendations for infection: For best results cells should be 24 to 48 hours old and 80% - 90% confluent (not 100% confluent).

Incubation: 6-8 days

Handling Procedures

Mycoplasma contamination: Not detected

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Notes

Tissue culture-adapted from ATCC VR-344. Inactivated by sodium desoxycholate.

Key Abbreviations: EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; TCID₅₀, Median tissue culture infective dose

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Dengue virus type 1 (ATCC VR-1586)

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 2023-01-14

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