



# VR-1490

VR-1490™

## Description

Dengue virus type 4 strain H241 is propagated in rhesus monkey kidney cells (RhMkK) (ATCC CCL-7.1). This product was derived by adaptation of suckling mouse-passaged H241 (ATCC VR-217) to RhMkK tissue culture (ATCC CCL-7.1). This product has applications in vector-borne disease research.

**Strain designation:** H241 (TC adapted)

**Deposited As:** Dengue virus type 4

**Serotype:** type 4

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

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## 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.

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## 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

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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.

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### Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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### Growth Conditions

**Host:** LLC-MK2 Derivative (ATCC CCL-7.1)

RhMkK TC; Host Range: sM (i.c. or i.p.); RhMk (i.c.); MkK TC

**Effects:** CPE; cell degeneration; inhibited cell growth

**Temperature:** 37°C

**Incubation:** 4-10 days at 37C in tissue culture; 4-6 days in suckling mice

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### Handling Procedures

**Mycoplasma contamination:** Not detected

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### Notes

Derived by adaptation of sM-passage H241 (ATCC VR-217) to RhMkK TC (ATCC CCL-7.1). Many additional strains have been isolated from serum of human patients and *Aedes aegypti* and *Aedes albopictus* mosquitos. This virus appears to be one cause of S. E. Asian mosquito-borne hemorrhagic fever and has also been associated with classical Dengue fever.

**Key Abbreviations:** CNS, Central nervous system; i.c., Intracerebral; i.p., Intraperitoneal; LLC-MK2, Rhesus monkey kidney cells; MkK, Monkey kidney; Mkk, Monkey kidney; SM, Suckling mouse; Rh, Rhesus; TC, Tissue culture; TCID<sub>50</sub>, Median tissue culture infective dose; Vero, African green monkey kidney cells

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### Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: VR-1490 (ATCC VR-1490)

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### References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the

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