Dengue virus type 4 (ATCC® VR-1490™)

**Description**

Strain: H241 (TC adapted)
Classification: Flaviviridae, Flavivirus
Original Source: derived from existing strain
Depositor: W Brandt, ATCC

**Batch-Specific Information**

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

**Propagation**

Propagation Host:
Host of Choice: RhMkK TC
Host Range: sM (i.c. or i.p.); RhMk (i.c.); MkK TC
Effect on Host:
Yes, in vitro effects: Cytopathic effects in tissue culture (focal cell degeneration and inhibited cell growth)
CPE in TC (focal cell degeneration and inhibited cell growth): death of sM
Yes, in vivo effects: death of suckling mice

**Growth Conditions**

Duration: 4-10 days at 37°C in tissue culture; 4-6 days in suckling mice

**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 4 (ATCC® VR-1490™)

**References**

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

**Key Abbreviations**

CNS, central nervous system
i.c., intracerebral
i.p., intraperitoneal
LLC-MK2, rhesus monkey kidney cells
Mk, monkey
MkK, monkey kidney
sM, suckling mouse
Rh, rhesus
TC, tissue culture
TCID[50], median tissue culture infective dose
Vero, African green monkey kidney cells

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 If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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