Strain: R103451
Classification: Flaviviridae, Flavivirus
Original Source: Placenta of a human isolated on January 6, 2016 infected from travel to Honduras in 2015
Depositor: BJ Russell, Centers for Disease Control and Prevention

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

Propagation

Propagation Host:
Vero cells (ATCC® CCL-81™)

Effect on Host:
CPE, refractile rounding and sloughing

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 70-90% 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. 0.01). Adsorb 1 hour at 37°C in a humidified 5% CO₂ atmosphere. End adsorption by adding virus growth medium.

Incubation: 4-7 days at 37°C in a humidified 5% CO₂ atmosphere, until CPE is progressed throughout monolayer.

Key Abbreviations
°C, degrees Celsius
CO₂, carbon dioxide
CPE, cytopathic effects
EMEM, Eagle’s Minimum Essential Medium
FBS, fetal bovine serum
MOI, multiplicity of infection

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.

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