Enterovirus D68, High titer (ATCC® VR-1825PQ™)

Strain: US/KY/14-18953
Original Source: Nasopharyngeal swab from patient with respiratory illness, Kentucky, September 2014
Depositor: Centers for Disease Control and Prevention

Propagate Host:
RD cells (ATCC® CCL-136™)

Effect on Host:
CPE, refractile rounding and sloughing

Medium:
DMEM (ATCC® 30-2002™) + 2% FBS (ATCC® 30-2020™)

Growth Conditions
Temperature: 33°C

Recommendations for Infection:
Plate cells 16-24 hours prior to infection and infect when cultures are 80-90% 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 1-2 hours at 33°C in a humidified 5% CO₂ atmosphere, rocking continuously at 0.5 rpm. End adsorption by adding virus growth medium.

Incubation: 2-3 days at 33°C in a humidified 5% CO₂ atmosphere, until CPE is progressed through 80% of the monolayer.

ATCC® VR-1825PQ™ is a high-titer, live virus suspended in 50 mM Tris-HCl + 150 mM NaCl + 1 mM EDTA + dH₂O. This product was prepared from ATCC® VR-1825™ via concentration through a sucrose cushion.

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

Key Abbreviations
°C, Degrees Celsius
CO₂, Carbon dioxide
DMEM, Dulbecco’s Minimum Essential Medium
EDTA, Ethylenediaminetetraacetic acid
FBS, Fetal bovine serum
MOI, Multiplicity of infection
RD, Rhabdomyosarcoma cell line

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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