Strain: Modified vaccinia virus Ankara (MVA)

Classification: Poxviridae, Orthopoxvirus

Original Source: CVA (Ankara) strain serially passaged in chicken embryo fibroblasts and plaque purified three times

Depositor: B Moss, LS Wyatt, National Institute of Allergy and Infectious Diseases

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

Propagation

Propagation Host:
BHK-21 (ATCC® CCL-10™)

Effect on Host:
CPE, rounding and sloughing

Medium:
EMEM (ATCC® 30-2003™) + 2% FBS (ATCC® 30-2020™)

Growth Conditions

Incubation: 37°C

Recommendations for Infection: Plate cells 24-48 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. 0.1). Adsorb 1-2 hours at 37°C in a humidified 5% CO₂ atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

Incubation: 3-7 days

Does not replicate in human cells or the majority of mammalian cells. This is a highly attenuated strain that some experts feel can be handled safely by trained personnel without the need for vaccination.

References

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

Key Abbreviations

°C, degrees Celsius
CO₂ (CO2), carbon dioxide
CPE, cytopathic effect
CVA, chorioallantoic vaccinia Ankara (Chorioallantois-Vakziniavirus-Ankara) 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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