**Description**

**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

**Batch-Specific Information**

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

**Comments**

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](http://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.

**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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