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## HCMV (AD169 Strain) Purified Virus, $\beta$ -PL Inactivated

Catalog Number: 10-275-500

Lot Number: C0315

Product Description: Human Cytomegalovirus (AD169 strain) purified virus inactivated by beta-propiolactone.

Cell Line for Propagation: Human foreskin fibroblast (HFS) Cells

Unit Size: 0.5 mg

Fill Volume: 0.7 mL

Suspending Buffer: 10 mM Tris, 150 mM NaCl, 1 mM EDTA, pH 7.5, and 25  $\mu$ g/ml gentamicin

### QUALITY CONTROL DATA

Sterility Tests: Bacteria, yeasts, and fungi were not detected (USP-NF). Mycoplasma was not detected by MycoAlert™ Mycoplasma Detection Kit (Lonza, LT07).

Protein Concentration: 0.74 mg/mL determined by Pierce BCA protein assay using BSA standard. Alternative methods for determining protein concentration may give different values.

Virus Particle Count (VPC) by TEM:  $3.8 \times 10^{10}$  vp/mL (active virus prior to inactivation)

Validation of Inactivation: After treatment with Beta-Propiolactone ( $\beta$ -PL) this lot was specifically tested for residual infectivity and no infectious virus was detected; however, virus retained viral morphology by TEM. The inactivated virus was titrated in HFS cells over a 7-day period with endpoint determination by cytopathic effect (CPE). Purified virus of the same lot and mock-infected HFS cells were included as positive and negative controls, respectively, for the assay. The positive control yielded an infectivity titer of  $10^{9.5}$  TCID<sub>50</sub>/mL.

### PRODUCT DETAILS

Shipping and Storage: This product is shipped frozen on dry ice. **Store at -70°C upon receipt.** Avoid multiple freeze-thaw cycles as product degradation may result.

Recommendations: Upon thawing, centrifuge the vial for a few seconds to remove residual droplets from the lid.

Safe Handling Recommendation: This inactivated biological preparation should be handled in accordance with biosafety guidelines defined in the BMBL, NIH-CDC HHS publication No (CDC) 21-1112.

Product Disclaimer: Beta-Propiolactone ( $\beta$ -PL)<sup>1</sup> is an alkylating agent of nucleic acid that has been shown to be effective in the inactivation of viruses.  $\beta$ -PL chemically modifies viral nucleic acid without affecting the immunogenicity or protein structure; **therefore, it is not appropriate for use in nucleic acid-based testing.**

References: 1. Capodici, et. al. Large Scale Beta-Propiolactone Inactivation of HIV for Vaccines. BioProcess International 2006; 36-41.

**This product is for research use only.  
Not for use in diagnostic procedures.**

  
Quality Control

07-13-2015  
Date

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**CERTIFICATE OF ANALYSIS**