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HIV-1 (IIIB Strain) Purified Virus

Catalog Number: 10-118-000

Lot Number: A0108

Product Description: Human Immunodeficiency Virus type 1 (IIIB strain) propagated in H9 cells and purified from culture supernatant and cells showing cytopathic effect.

Unit Size: 1.0 mg

Fill Volume: 800 µL

Suspending Buffer: 10 mM Tris, 150 mM NaCl, 1 mM EDTA, pH 7.5

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: 1.3 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: 6.7×10^{10} vp/mL

TCID₅₀ Titer: $10^{6.8}$ TCID₅₀/mL
HIV-1 is titrated in H9 cells over a period of 14 days with endpoint determination by cytopathic effect (CPE) and p24 antigen capture ELISA. Titer is calculated by the Karber method.

p24 Concentration: 56 µg/ml determined by p24 antigen capture ELISA.

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 preparation of HIV-1 is a **BIOHAZARDOUS** material containing **ACTIVE VIRUS** and should be handled in accordance with biosafety guidelines defined in the BMBL, NIH-CDC HHS publication No. (CDC) 21-1112.

- References:**
1. Zheng, N.N., et al. Role of human immunodeficiency virus (HIV)-specific t-cell immunity in control of dual HIV-1 and HIV-2 infection. *Journal of Virology* 2007; 81: 9061-9071.
 2. Mulato, A.S., et al. Nonsteroidal anti-inflammatory drugs efficiently reduce the transport and cytotoxicity of adefovir mediated by the human renal organic anion transporter 1. *The Journal of Pharmacology and Experimental Therapeutics* 2000; 295: 10-15.
 3. Gulzar, N, et al. Infection of CD8+CD45RO+memory t-cells by HIV-1 and their proliferative response. *The Open AIDS Journal* 2008; 2: 43-57.
 4. Cihlar, T, et al. Design and profiling of GS-9148, a novel nucleotide analog active against nucleoside-resistant variants of human immunodeficiency virus type 1, and its orally bioavailable phosphonoamidate prodrug, GS-9131. *Antimicrobial Agents and Chemotherapy* 2008; 52: 655-665.
 5. Neurath, RA, et al. Role of seminal plasma in the anti-HIV-1 activity of candidate microbicides. *BMC Infectious Diseases* 2006; 6: 150.

**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