

## HIV-1 (IIIB Strain) Purified Viral Lysate

Catalog Number: 10-119-000

Lot Number: D0502

Product Description: Human Immunodeficiency Virus type 1 (IIIB strain) purified virus lysed with Triton X-100.

Cell Line for Propagation: H9 Cells

Unit Size: 1.0 mg

Fill Volume: 0.9 mL

Suspending Buffer: 10 mM Tris, 150 mM NaCl, 1 mM EDTA, pH 7.5 with 1% Triton X-100

### 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:** 1.2 mg/mL determined by Pierce BCA protein assay using BSA standard. Alternative methods for determining protein concentration may give different values.

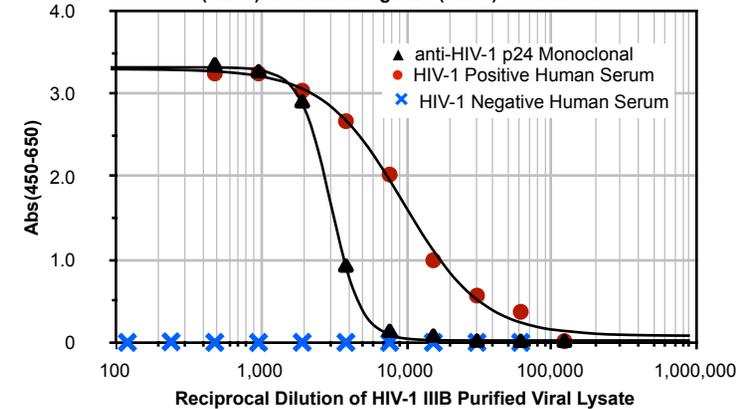
**Virus Particle Count (VPC) by TEM:**  $6.7 \times 10^{10}$  vp/mL (active virus prior to lysis)

**p24 Concentration:** 133 µg/mL determined by HIV-1 p24 antigen capture ELISA.

**Validation of Inactivation:** This lot of viral lysate has been specifically tested for residual infectivity and no infectious virus was detected. The lysate was titrated in H9 cells over a 28-day period with endpoint determination by cytopathic effect (CPE) and p24 antigen capture ELISA. Purified virus of the same viral stock and mock-infected H9 cells were included as positive and negative controls, respectively, for the assay. The positive control yielded an infectivity titer of  $10^{5.8}$  TCID<sub>50</sub>/mL.

**ELISA Testing:** 4,646 units\*/mL using anti-HIV-1 p24 MAb.  
31,726 units\*/mL using HIV-1 Positive Human Serum.  
0 units\*/mL using HIV-1 Negative Human Serum.  
\*A unit is defined as the reciprocal dilution that gives an absorbance of 0.500 in our test system.

ELISA Reactivity of HIV-1 IIIB Purified Viral Lysate Lot No. D0502 with anti-HIV-1 p24 Monoclonal (1:100) HIV-1 Positive (1:200) and HIV-1 Negative (1:200) Human Sera



**Western Blot Testing:** Reactive in Western blot at 5 µg using anti-HIV-1p24 MAb (1:100) and at 20 µg using anti-HIV-1 gp120 MAb (1:100).

### 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, if any precipitate of proteinaceous material is observed, pulse vortex until the precipitate is completely resuspended. Use immediately following resuspension.

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

**References:** 1. Quayle, AJ, et al. T-lymphocyte profile and total and virus-specific immunoglobulin concentrations in the cervix of HIV-1-infected women. *Journal of Acquired Immune Deficiency Syndromes* 2007; 44: 292-298.

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**