



NIH AIDS Reagent Program

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DATA SHEET

Reagent: ☒ HIV-1 HXB2 74V Virus

Catalog Number: 2528

Lot Number: 097123

Release Category: A

Provided: 1 mL cell-free virus
TCID₅₀ = 5.0 x 10⁴/mL

Original Source: MT-2 cells cotransfected with molecular clones M13 (RT 74V mutant) and pHIVDRTBstEII (RT deletion mutant).

Host Strain: Propagate in MT-2. Also infects CD4+ human neoplastic T-cell lines including H9, MT-4, C8166, and CEM, as well as CD4+ HeLa cells and human PBMCs.

Sterility: Negative for bacteria, fungi, and mycoplasma.

Description: Contains a mutation in RT amino acid residue 74V rendering the virus resistant to ddI and ddC and utilizes CXCR4

Special Characteristics: Resistance is approximately 6-10-fold greater than that of the parental HXB2 virus (HeLa-CD4 cell assay)

Recommended Storage: Liquid nitrogen

Contributor: Dr. Brendan Larder, courtesy of the MRC AIDS Directed Programme.

References: St Clair, M. H., Martin, J. L., Tudor-Williams, G., Bach, M. C., Vavro, C. L., King, D. M., . . . Larder, B. A. (1991). Resistance to ddI and sensitivity to AZT induced by a mutation in HIV-1 reverse transcriptase. *Science*, 253(5027), 1557-1559. [PUBMED](#)

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 74V Virus from Dr. Brendan Larder." Also include the reference cited above in any publications.

Last Updated:

August 14, 2018

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