



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	☒ HIV-1 HXB2 74V Virus
Catalog Number:	2528
Lot Number:	180142
Release Category:	A
Provided:	1 mL of cell-free virus TCID50= 1.46×10^5 TCID50/mL in MT-2 cells p24 = 139.1 ng/mL RT cpm/15 μ L = 10,251
Original Source:	MT-2 cells cotransfected with molecular clones M13 (RT 74V mutant) and pHIVDRTBstEII (RT deletion mutant).
Host Strain:	Propagate in MT-2 Cells. 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 mycoplasma, bacteria and fungi.
Description:	A group M, subtype B, lab-adapted HIV-1 virus isolate which utilizes CXCR4 co-receptor to infect cells. Contains a mutation in RT amino acid residue 74V rendering the virus resistant to ddI and ddC.
Special Characteristics:	HIV-1 HXB2 74V Virus was generated by cotransfection of MT-2 cells with replicative-form M13 DNA containing mutated RT and the RT-deleted provirus clone pHIVDRTBstEII. HIV-1 HXB2 74V Virus resistance to ddI and ddC is approximately 6-10-fold greater than that of the parental HXB2 virus (HeLa-CD4 cell assay).
Recommended Storage:	Keep the reagent in liquid nitrogen.

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.

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

References: St Clair, M. H., J. L. Martin, G. Tudor-Williams, M. C. Bach, C. L. Vavro, D. M. King, P. Kellam, S. D. Kemp and B. A. Larder. (1991). Resistance to ddI and sensitivity to AZT induced by a mutation in HIV-1 reverse transcriptase. *Science*, 253(5027), 1557-9.
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NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 HXB2 74V Virus from Dr. Brendan Larder (Cat# 2528)." Also include the references cited above in any publications.

Last Updated: August 20, 2025

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