

Centre for AIDS Reagents

Data Sheet

NAME:	HIV-1_{LAI-M184V} (3TC-resistant)
REPOSITORY REFERENCE:	ARP1161
PRESENTATION:	1 ml cell-free virus (grown in MT-2 cells) TCID ₅₀ = 10 ^{3.5} per mL. p24= 13ng/mL
CELL LINE FOR PROPAGATION:	MT-2 Cells or PHA-stimulated normal donor PBMCs. Virus is readily expanded by infecting 1-5 x 10 ⁶ MT-2 cells or PHA-stimulated donor PBMCs with 0.1 ml of virus.
STORAGE:	-80°C
SOURCE:	Dr. John Mellors and Dr. Raymond Schinazi.
NOTE:	Produced by electroporation of MT-2 cells with HIV-1 _{LAI} proviral DNA encoding the M184V RT substitution. Highly cytopathic; replicates to high titers (>10 ⁵ TCID ₅₀ /ml). The virus is highly resistant to 3TC, with IC ₅₀ values >60 µM in HeLa-CD4/LacZ-1 cells and >50 µM in normal donor PBMCs. The stability of the drug-resistant phenotype following multiple passages (>2) in the absence of 3TC is unknown.
REFERENCES:	Schinazi RF, Lloyd RM, Nguyen MH, Cannon DL, McMillan A, Ilksoy N, Chu CK, Liotta DC, Bazmi H, Mellors JW. Characteristics of human immunodeficiency viruses resistant to oxathiolane-cytosine nucleosides. <i>Antimicrob Agents Chemother</i> 37 :875-881, 1993.

ACKNOWLEDGEMENTS:

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www.nibsc.ac.uk/spotlight/centre_for_aids_reagents.aspx

Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be electronically or as a paper copy)