



NIH AIDS Reagent Program

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DATA SHEET

Reagent: ☒ HIV-1 JR-CSF Virus

Catalog Number: 394

Lot Number: 97005

Release Category: C

Provided: 1 mL cell-free virus
TCID50= 1.6×10^5 TCID50/mL in PBMC

Original Source: This isolate originated from the filtered cerebrospinal fluid of patient with AIDS dementia. This virus was isolated from the same patient as HIV-1 JR-FL Virus (cat# 395), but found to be phenotypically distinct.

The filtered CSF was cultured with PHA-stimulated human peripheral blood lymphocytes (PBL) for initial virus isolation. The virus was cloned, transfected into 729 B cells, cultured for 24 hours, and rescued by cocultivation in human PBLs. Virus was harvested 1 week after PBL infection.

Host Strain: Human PBMC

This virus also infects mononuclear phagocytes, but less efficiently than HIV-1 JR-FL Virus.

Propagation: [Propagation of HIV-1 JR-FL Virus and HIV-1 JR-CSF Virus](#)

Sterility: Negative for mycoplasma, bacteria, and fungi

Description: A group M, lab adapted HIV-1 virus isolate which utilized CCR5 co-receptors to infect cells. This isolate is non-syncytia inducing (NSI).

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.

Special Characteristics: HIV-1 JR-CSF virus will not productively infect any cell lines tested. Infects human brain primary glioma explant cells, producing persistent, low levels of virus.

The virus is not cytopathic.

Recommended Storage: Keep the reagent in liquid nitrogen.

Contributor: Dr. Irvin S.Y. Chen

References: Cann, A. J., Zack, J. A., Go, A. S., Arrigo, S. J., Koyanagi, Y., Green, P. L., . . . Chen, I. S. (1990). Human immunodeficiency virus type 1 T-cell tropism is determined by events prior to provirus formation. *J Virol*, 64(10), 4735-4742. [PUBMED](#)

Koyanagi, Y., Miles, S., Mitsuyasu, R. T., Merrill, J. E., Vinters, H. V., & Chen, I. S. (1987). Dual infection of the central nervous system by AIDS viruses with distinct cellular tropisms. *Science*, 236(4803), 819-822. [PUBMED](#)

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 JR-CSF Virus from Dr. Irvin Chen." Also include the references cited above in any publications.

Corporate requests should be directed to Ms. Claire Wake at the Office of Intellectual Property Administration, Room 1400, Ueberroth Building, UCLA, 405 Hilgard Avenue, Los Angeles, CA 90024-1406, phone: 310-206-4401; FAX: 310-206-3619.

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