



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** ☒ HIV-1 JR-FL Virus

**Catalog Number:** 395

**Lot Number:** 140318

**Release Category:** C

**Provided:** 1 mL cell-free virus obtained from PHA-stimulated human PBMC.  $2.15 \times 10^3$  TCID<sub>50</sub>/mL, p24 = 46.3 ng/mL.

**Original Source:** Frontal lobe brain tissue of patient with AIDS dementia obtained at autopsy. This virus was isolated from the same patient as HIV-1 JR-CSF (catalog #394), but was found to be phenotypically distinct. Virus-infected CSF cells were co-cultured with PHA-activated normal human lymphocytes for initial virus isolation. Supernatant from the lymphocyte culture was collected after 24 hours of culture and used to infect PHA-stimulated primary human peripheral blood lymphocytes (PBL).

**Description:** R5 (NSI).  
[Propagation of HIV-1<sub>JR-FL</sub> and HIV-1 JR-CSF](#)

**Special Characteristics:** HIV-1 JR-FL will not replicate in any cell lines tested, including Jurkat, HUT 78 and U937. The virus is weakly cytopathic in PBLs. A few enlarged cells, some with ballooning protrusions, were evident primarily 24-48 hours after the addition of fresh cells to this lot of JR-FL. JR-FL utilizes the CCR5 coreceptor. Host of Choice: Primary human PBL. Also infects primary human mononuclear phagocytes.

**Recommended Storage:** Liquid nitrogen.

**Contributor:** Dr. Irvin S.Y. Chen

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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.

**References:**

O'Brien WA, Koyanagi Y, Namazie A, Zhao J-Q, Diagne A, Idler K, Zack JA, Chen IS-Y. HIV-1 tropism for mononuclear phagocytes can be determined by regions of gp120 outside the CD4-binding domain. *Nature* **348**:69-73, 1990. Konayagi Y, O'Brien W, Zhao J, Golde D, Gasson J, Chen ISY. Cytokines alter production of HIV-1 from primary mononuclear phagocytes. *Science* **241**:1673-1675, 1988. Koyanagi Y, Miles S, Mitsuyasu RT, Merrill JE, Vinters HV, Chen ISY. Dual infection of the central nervous system by AIDS viruses with distinct cellular tropisms. *Science* **236**:819-822, 1987.

**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-FL Virus from Dr. Irvin Chen." Also include the references cited above in any publications.

**Scientists at for-profit institutions or who intend commercial use of this reagent must contact Charanjit Arora the UCLA Tech Transfer Department at the following email address: [charanjit.arora@tdg.ucla.edu](mailto:charanjit.arora@tdg.ucla.edu)**

**Last Updated:**

July 05, 2018

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