



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

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| Reagent: | J-Lat Full Length Cells (9.2) |
| Catalog Number: | 9848 |
| Lot Number: | 150244 |
| Release Category: | C |
| Provided: | 1 mL of cells at 6.0×10^6 cells/vial. Post-thaw viability = 90% |
| Cell Type: | Jurkat - T lymphocyte cell line |
| Propagation Medium: | RPMI 1640, 90%; FBS, 10%; supplemented with penicillin G (100 U/ml), streptomycin (100 µg/ml), L-glutamine (2 mM, 0.3 mg/ml). |
| Freeze Medium: | FBS, 90%; DMSO, 10%. |
| Growth Characteristics: | No special requirements, split 1:3 at 1×10^7 cells/ml. Cells grow in suspension, usually singly but some clumping has been noted. |
| Morphology: | Small, spherical cells in suspension. Morphology usually does not vary. |
| Sterility: | Negative for bacteria, mycoplasma, and fungi. |
| Description: | This is a Jurkat-based cell line containing a full-length integrated HIV-1 genome that expresses GFP upon activation. The genome generates incomplete virions due to a frameshift in env. |
| Special Characteristics: | Jurkat cells were infected with the packaged retroviral construct HIV-R7/E-/GFP, which is full length HIV-1 genome with a non-functional Env due to a frameshift, and GFP in place of the Nef gene. Full-length constructs secrete incomplete viral particles (capsids). The cells express low to undetectable levels of GFP under basal conditions. Suited to study HIV latency and |

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.

reactivation.

The clones in this series are: 6.3 (cat# 9846), 8.4 (cat# 9847), 9.2 (cat# 9848), 10.6 (cat# 9849), and 15.4 (cat# 9850).

Please see Table I in the reference publication for differences between these clones in GFP and p24 expression upon stimulation with TNF- α

Recommended Storage:

Liquid nitrogen.

Contributor:

Dr. Eric Verdin.

References:

Jordan, A., Bisgrove, D., & Verdin, E. (2003). HIV reproducibly establishes a latent infection after acute infection of T cells in vitro. EMBO J, 22(8), 1868-1877. doi:10.1093/emboj/cdg188 [PUBMED](#)

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: J-Lat Full Length GFP Cells (clone #) from Dr. Eric Verdin." Also include the reference cited above in any publication.

These cells and methods of use are covered by US Patents 7,232,685 and 7,544,467.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact the J. David Gladstone Institutes, Email: veronica.viray@gladstone.ucsf.edu, before the reagent can be released. Please specify the name and a description of the intended use of the reagent.

Last Updated

November 09, 2017

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