**Reagent:**

| HIV-1 LAV infected 8E5 Cells |

**Catalog Number:**

95

**Lot Number:**

100217

**Release Category:**

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**Provided:**

3 x 10^6 cells/ml. Viability is 95%.

**Cell Type:**

Subclone of LAV-infected A3.01, a CD4⁺ CEM-derived human T-cell line.

**Propagation Medium:**

RPMI 1640, 90%; fetal bovine serum, 10%.

**Freeze Medium:**

RPMI 1640, 82.5%; fetal bovine serum, 10%; and DMSO, 7.5%.

**Growth Characteristics:**

When thawing, slowly dilute the cells with 37°C medium dropwise. Begin the culture at 2 x 10^6 cells/ml, splitting the cells 24 hours later 1 x 10^6 cells/ml. Passage the cells every three days thereafter to give a concentration of 1 x 10^6 cells/ml. Cells grow in single cell suspension with some clumping. 8E5/LAV has also been successfully grown in OPTI-MEM containing 2.5% fetal bovine serum, 2.0 mM L-glutamine, 100 U/ml penicillin, 100 µg/ml streptomycin, and 0.5 µM β-mercaptoethanol.

**Sterility:**

Negative for bacteria, mycoplasma, and fungi.

**Special Characteristics:**

Similar in morphology to other T-cell lines. A3.01 parent cells were infected with LAV and selected by a series of 3 exposures to IUdR. Each 8E5/LAV subclone contains a single integrated copy of proviral DNA (no unintegrated DNA) directing synthesis of defective virus particles. Cells are CD4⁻ and secrete high levels of p24, but do not produce RT.

**Please note, publications have shown that multiple passages of this cell line, particularly at high split ratios, can result in a loss of proviral DNA. See the second and third articles in the reference section for more information.**

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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.**
Recommended Storage: Keep the reagent in liquid nitrogen.

Contributor: Dr. Thomas Folks.

References:


NOTE:
Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 LAV infected 8E5 Cells from Dr. Thomas Folks." Also include the reference cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact the NIH Office of Technology Transfer, Email: NIAIDAIDSReagent@niaid.nih.gov, before the reagent can be released. Please specify the name and a description of the intended use of the reagent.

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