



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	12D7 Cells
Catalog Number:	11411
Lot Number:	120250
Release Category:	C
Provided:	5.0 x 10 ⁶ cells/vial (1 ml/vial). 93% viability.
Cell Type:	CEM-derived AZA-resistant A3.01 clone
Propagation Medium:	RPMI 1640, 10% FBS or FCS (complete medium).
Freeze Medium:	Complete medium plus 50% FCS
Growth Characteristics:	Exponential non-adherent (suspension) cell growth is seen when cells are typically seeded at 0.5-1 x 10 ⁵ cells/ml in complete medium, achieving concentrations > 1x10 ⁶ cells/ml. no specific requirements for thawing the cells and establishing them in culture. Starting at the cell concentrations specified above, the cells should be split every 48-72h when they exceed 5x10 ⁶ cells/ml.
Morphology:	The cells look like small "round" lymphocytes and tend to form small clumps.
Sterility:	Negative for mycoplasma, bacteria, and fungi.
Description:	12D7 are a CD4+ highly expressing clone of A3.01.
Special Characteristics:	12D7 was derived by limiting dilution cloning, in the absence of feeder cells, of the CEM-derived AZA-resistant A3.01 cell line generated by T.M. Folks and T. Kindt at NIAID. 12D7 was selected for high levels of expression of CD4 (primary HIV receptor) and, particularly, for its susceptibility to the cytopathic effect induced by CXCR4-dependent

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.

laboratory-adapted HIV-1 (strain: LA1/1115). Most LZU7 die as single cells upon infection with this virus with minimal evidence of syncytia formation.

Recommended Storage:

Liquid nitrogen

Contributor:

Dr. Guido Poli, M.D., San Raffaele Scientific Institute, Italy.

References:

Bour S, Akari H, Miyagi E, Strebel K. Naturally occurring amino acid substitutions in the HIV-2 ROD envelope glycoprotein regulate its ability to augment viral particle release. *Virology*. 2003 Apr 25; **309**(1):85-98. [\[Abstract\]](#) [\[Full Text\]](#)

Lee CG, Ramachandra M, Jeang KT, Martin MA, Pastan I, Gottesman MM. Effect of ABC transporters on HIV-1 infection: inhibition of virus production by the MDR1 transporter. *FASEB J*. 2000 Mar; **14**(3):516-22. [\[Abstract\]](#) [\[Full Text\]](#)

NOTE:

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.

Last Updated

July 05, 2018

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