



NIH AIDS Reagent Program

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DATA SHEET

Reagent: ☒ RT-SHIV Virus

Catalog Number: 11342

Lot Number: 120030

Release Category: E

Provided: 1 vial of cell-free virus, TCID₅₀ = 2.87x10³/mL. p27 = 101 ng/mL

Propagation: Virus was propagated in CEMx174 cells.

Sterility: Negative for mycoplasma, bacteria, and fungi

Description: SIV_{mac239} with the Reverse Transcriptase replaced with that of HIV-1 clone HXBc2.

Special Characteristics: Contains a T to C substitution at position 8 of the SIV tRNA primer binding site that improves replication (Soderberg et.al., 2002)

Recommended Storage: Liquid Nitrogen

Contributor: Drs. Thomas North and Joseph Sodroski

References: T. W. North, K. K. Van Rompay, J. Higgins, T. B. Matthews, D. A. Wadford, N. C. Pedersen and R. F. Schinazi. (2005). Suppression of virus load by highly active antiretroviral therapy in rhesus macaques infected with a recombinant simian immunodeficiency virus containing reverse transcriptase from human immunodeficiency virus type 1. *J Virol*, 79(12), 7349-54. [PUBMED](#)

K. Soderberg, L. Denekamp, S. Nikiforow, K. Sautter, R. C. Desrosiers and L. Alexander. (2002). A nucleotide substitution in the tRNA(Lys) primer binding site dramatically increases replication of recombinant simian immunodeficiency virus containing a human immunodeficiency virus type 1 reverse transcriptase. *J Virol*, 76(11), 5803-6. [PUBMED](#)

K. Uberla, C. Stahl-Hennig, D. Bottiger, K. Matz-Rensing, F. J. Kaup, J. Li, W. A.

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.

raseitine, B. Fleckenstein, G. Hunsmann, B. Uberg and et al. (1995). Animal model for the therapy of acquired immunodeficiency syndrome with reverse transcriptase inhibitors. Proc Natl Acad Sci U S A, 92(18), 8210-4. [PUBMED](#)

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: RT-SHIV Virus (Cat# 11342) from Dr. Thomas North and Dr. Joseph Sodroski." Also include the references cited above in any publications.

Last Updated:

October 19, 2020

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