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DATA SHEET

Reagent:	HIV-1 A018C Virus (G910-6)
Catalog Number:	13243
Lot Number:	170239
Release Category:	A
Provided:	1 mL of cell-free virus TCID50= 4.60 x 10^4 TCID50/mL in PBMCs p24 = 81.7 ng/mL IC50 of AZT in PBMCs = 81.1 nM
Original Source:	Human peripheral blood lymphocytes isolated from a patient with AIDS-Related Complex (ARC) after receiving a zidovudine treatment.
Host Strain:	Human CD4-enriched PBMCs
Propagation:	A protocol to prepare viral stocks is provided by the LANL HIV Databases.
Sterility:	Negative for mycoplasma, bacteria and fungi
Description:	A group M, subtype B, HIV-1 virus isolate which utilizes CCR5 and CXCR4 co-receptors to infect cells. This isolate is AZT resistant.
Special Characteristics:	This HIV isolates were obtained by co-cultivation of phytohemagglutinin (PHA)-stimulated peripheral blood lymphocytes (PBLs) from an ARC patient who was under zidovudine therapy for 14 months, with MT-2 cells. This is a zidovidine post-treatment virus isolate. A corresponding pre-treatment virus isolate is also available. A018A Virus (H112-2) (cat# 629) is the corresponding AZT sensitive form of the virus pre-treatment. HIV-1 A018C Virus (G910-6) strain has multiple mutations located in the N-terminal

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.

domain of the RT gene not seen in the AZT sensitive strain A018A Virus (H112-2).

GenBank Accession Number: U12739

PBMC Co-culture and Plaque Reduction Assay Using HT4-6C Cells

Recommended Storage: Keep the reagent in liquid nitrogen.

Contributor: Dr. Douglas Richman

References:

B. A. Larder, G. Darby and D. D. Richman. (1989). HIV with reduced sensitivity to zidovudine (AZT) isolated during prolonged therapy. Science, 243(4899), 1731-4. PUBMED

B. A. Larder and S. D. Kemp. (1989). Multiple mutations in HIV-1 reverse transcriptase confer high-level resistance to zidovudine (AZT). Science, 246(4934), 1155-8. PUBMED

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 A018C Virus (G910-6) from Dr. Douglas Richman (Cat# 13243)." Also include the references cited above in any publications.

Last Updated: October 23, 2018

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