



NIH AIDS Reagent Program

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DATA SHEET

Reagent: ☒ FIV FPBM Virus

Catalog Number: 236

Lot Number: 6/9/88

Release Category: A

Provided: 1 vial cell-free virus.

Original Source: Plasma from original Petaluma stray cattery cat was inoculated into specific pathogen-free cat (#2429). This cat became chronically infected. Three years later, blood from cat #2429 was used to infect specific pathogen free cat #20. The virus was subsequently re-isolated from cat #20 in Con-A-stimulated and IL-2 maintained peripheral blood mononuclear cell (PBMC) cultures.

Host Strain: Feline peripheral blood lymphocytes. Can be adapted with time to CRFK cells. Grows preferentially in stimulated PBMC from domestic cats. Limited attempts to propagate the virus in cells of other species have been unsuccessful.

Propagation: Preparation: PBMC from cat #20 were purified on Ficoll-Hypaque density gradients, stimulated with Con-A, and propagated with rhuIL-2. Fresh stimulated PBMC were added weekly. Culture supernatants were harvested when RT levels were maximal

Sterility: Negative for aerobic and anaerobic bacteria, mycoplasma, fungi, and yeast.

Special Characteristics: Lymphocyte propagated Petaluma strain of FIV is free of adventitious viruses, including FeLV and FeSV. Readily infects domestic cats, causing immunosuppression in many cats after a latent period of 2 years or more. Immune suppression is indicated by a progressive drop in absolute CD4+ lymphocyte levels, inversion of the CD4+:CD8+ T-lymphocyte ratio, and alterations in responsiveness to T-dependent antigens.

Titer: Varies according to length of time PBL cultures monitored for RT production. Titer around 10^3 TCID₁₀₀/ml after 7-14 days in culture. May reach 10^5 TCID₁₀₀/ml at 4-6 weeks.
Host Strain: Petaluma; second animal passage, first tissue culture passage.

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: Liquid nitrogen.

Contributor: Dr. Niels Pedersen and Dr. Janet Yamamoto.

References: Pedersen NC, Ho EW, Brown ML, Yamamoto JK. Isolation of a T-lymphotropic virus from domestic cats with an immunodeficiency-like syndrome. *Science* **235**:790-793, 1987.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: FIV FPBM Virus from Dr. Niels Pedersen and Dr. Janet Yamamoto." Also include the reference cited above in any publications.

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