



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	VB Cells
<b>Catalog Number:</b>	150
<b>Lot Number:</b>	58-165
<b>Release Category:</b>	B
<b>Provided:</b>	10 x 10 <sup>5</sup> cells/vial. Both vials should be combined and grown simultaneously.
<b>Cell Type:</b>	Isolated from a patient with T cell lymphoma.
<b>Propagation Medium:</b>	DMEM, 90%; fetal bovine serum, 10%.
<b>Freeze Medium:</b>	Propagation medium, 90%; DMSO, 10%.
<b>Growth Characteristics:</b>	Cells are slow growing and form clusters and clumps. Seed at 1 x 10 <sup>4</sup> - 1 x 10 <sup>5</sup> cells/ml and passaged at 1:10 every 4-5 days. Doubling time is approximately 24-36 hours. VB cells have also been grown in RPMI supplemented with 10% fetal calf serum.
<b>Morphology:</b>	Thymocyte-like
<b>Sterility:</b>	Negative for bacteria, mycoplasma, yeast, and mold.
<b>Description:</b>	VB cells are CD4+ and can be used to replicate various HIV isolates.
<b>Special Characteristics:</b>	Cells are CD4+, CD8+, and MHC Class I+
<b>Recommended Storage:</b>	Liquid nitrogen.

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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.

**Contributor:** Dr. Edgar Engleman. Cell line developed by Dr. Steven Smith.

**References:** Mohaghehpour N, Chakrabarti R, Sterin BS, Gowda SD, Engleman EG. Early activation events render T cells susceptible to HIV-1-induced syncytia formation. *J Biol Chem* **266**:7233-7238, 1991.

Gowda SD, Stein BS, Engleman EG. HIV-1 entry into CD4+ cells: roles of endosomal pH and T cell activation. *Human Retroviruses*. Alan R. Liss, Inc, NY, pp. 227-237, 1990.

Gowda SD, Stein BS, Mohaghehpour N, Benike CJ, Engleman EG. Evidence that T cell activation is required for HIV-1 entry in CD4+ lymphocytes. *J Immunol* **142**:773-780, 1989.

Stein BS, Gowda SD, Lifson JD, Penhallow RC, Bensch KG, Engleman EG. pH-Independent HIV entry into CD4-positive T cells via virus envelope fusion to the plasma membrane. *Cell* **49**:659-668, 1987.

Lifson JD, Reyes GR, McGrath MS, Stein BS, Engleman EG. AIDS retrovirus induced cytopathology: Giant cell formation and involvement of CD4 antigen. *Science* **232**:1123-1127, 1986.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: VB Cells from Dr. Edgar Engleman." Also include the references cited above in any publications.

**Last Updated** July 02, 2018

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