

**United States Department of Agriculture
Animal and Plant Health Inspection Service
Center for Veterinary Biologics
P. O. Box 844
Ames, IA 50010**

1. **Reagent Name:** Avian Lymphoid Leukosis Virus Type A Positive Control (PC)
2. **Strain or Source:** RAV-1
3. **Lot Number:** 12-02
4. **Fill Date:** November 22, 2011
5. **Expiration Date:** None

Precautions: Lymphoid leukosis virus is infectious for chickens and certain other avian species.

6. **Intended Use:** This product is used as a positive control virus in the Avian Leukosis Virus ELISA (Idexx Avian Leukosis Test kit; **CVB-PRO-0036**).

7. **Instructions for Use:** The PC virus is bottled at a 1:100 dilution. Four ten-fold serial dilutions are made, for a final concentration of 1×10^{-6} . This concentration is the starting inoculum for CEFs inoculation for subsequent passage and use in the ELISA test.

8. **Test of Reagent:** ALV-A, Lot LLA 90-1 is the stock virus from which the diluted positive control preparation is produced. The stock virus was determined to be free from chicken anemia virus (CAV) by PCR (Veterinary Services Memorandum No. 800.89), and no evidence of other avian extraneous agents was detected. The diluted PC virus is tested in accordance with the 9 CFR requirements by the Center for Veterinary Biologics as indicated below:

9 CFR Section	9 CFR Section Title
113.27(c)	Detection of extraneous viable bacteria and fungi in live vaccines
113.28	Detection of mycoplasma contamination
Veterinary Services Memorandum 800.88	^a Detection of reticuloendotheliosis virus (REV) contamination by PCR

^aStock virus was not tested for REV contamination by Veterinary Services Memorandum No. 800.88.

9. **Container Size, Type, Weight or Volume:** The volume of fill for this PC virus is 1.0 to 1.2 mL per 2-mL cryovial.

10. **Storage Conditions:** Store at $-70^{\circ} \pm 5^{\circ}C$

11. CVB Technical Contact: Virology Section, Center for Veterinary Biologics, (515) 337-6100.

12. Origin and Passage History: The ALV-A isolate was obtained from Dr. William Okazaki, Regional Poultry Laboratory, East Lansing, Michigan. Virus stock was expanded once in chick embryos and twice in chick embryos fibroblast cell cultures and given the designation of ALV-A lot LLA90-1. I

13. Method of Preparation: ALV-A Lot LLA 90-1 is removed from the -70 freezer and is thawed using a $37 \pm 2^\circ\text{C}$ incubator or water bath. Dilute 1:100 using 199 Earles (National Centers for Animal Health (NCAH) Media #20010) without fetal bovine serum (FBS), and place into a sterile receptacle. The diluted virus is mixed for 10 ± 2 minutes on a stir plate. Once mixed, the diluted control is placed in an ice bath and is immediately filled into appropriate sized vials, sealed, and stored at or below -70°C .

14. Other: None

Restrictions: This Reagent is intended as a positive control virus for use in the ALV ELISA.

Reagent orders and feedback should be sent *including phone number* to the following email address: VS.DB.CVB.Reagent.Requests@usda.gov

Reagent orders forms (APHIS Form 2018) can be found on the CVB website.