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: Chicken Anemia Virus DNA Positive Control

2. Strain or Source: Del-Ros Strain

3. Lot Number: 15-07

4. Fill Date: April 13, 2015

5. Expiration Date: Not applicable

Precautions: There are no known hazards associated with this reagent.

6. Intended Use: This CAV DNA is intended for use as an internal and external positive control for Polymerase Chain Reaction (PCR).

7. Instructions for Use: CAV DNA positive control is supplied at 1 x 10^5 copies/µl and each vial is intended for a single use. Dilute 1:100 prior to use (example: 10 µl DNA into 990 µl of DNase/RNase free water). For internal controls, spike 100 µl of CAV DNA positive control into 100 µl of sample prior to extraction, for a total of 200 µl. For PCR external control, spike 10 µl of CAV DNA positive control directly into master mix.

8. Test of Reagent: Sequencing results were edited and aligned with sequences deposited in Genbank. Nucleotide sequences from the CAV DNA standards showed 100% consensus identity corresponding to overlapping regions of VP2, VP3 and VP1 genes of Chicken Anemia Virus (GenBank: AY583755). Quantification of copy number per µl was performed using spectrophotometric analysis.

9. Container Size, Type, Weight, or Volume: 100 µL in a 500-µL matrix tube.

10. Storage Conditions: Store at -20ºC until use.

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

12. Origin and Passage History: 419 base pair fragment from overlapping regions of the VP2-VP3 and VP1-VP2 genes from Chicken Anemia Virus.

13. Method of Preparation: The DNA control was generated using extracted DNA from the Del-Ros Strain and amplification performed as described in CVB-PRO-0027, *Polymerase Chain Reaction Assay for Detection and Identity of Extraneous Chicken Anemia Virus (CAV) DNA*. The resulting CAV fragments were purified using the Qiaquick PCR Purification kit from Qiagen and quantified using a Nano Drop 2000 from Thermo Scientific. The quantified DNA was tenfold serially diluted with DNase/RNase free water to the concentration of 1×10^5 copies/µL and 100 µL aliquots were frozen at -20ºC.

14. Other:

Restrictions: Single use aliquots. Stability has not been determined. Do not freeze/thaw.

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.