Chicken Anemia Virus DNA Positive Control - Lot ID 15-07

Document Number: CVB-DAT-0220  Revision: 02

Previous Number: VIRDAT0069.03

Vault: CVB-Released

Section/Area: CVB-DAT

Effective Date: 21 Apr 2022

Notes: Strain/Source: Del-Ros Strain, Fill Date: April 13, 2015
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

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**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 $1 \times 10^5$ 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 -20°C 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 VIRPRO0118. 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 $1 \times 10^5$ copies/µL and 100 µL aliquots were frozen at -20°C.

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.CV.B.Reagent.Requests@aphis.usda.gov

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

**REVISED:** 01Sep15 skc