



Animal and Plant
Health Inspection
Service

Veterinary Services

Center for Veterinary
Biologics

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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

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 1×10^5 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 1×10^5 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.CVB.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