

**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:** Secondary Reference Serum-Bovine IgG; Stock for Bovine IgG Species Standard
2. **Strain or Source:** Defibrinated bovine plasma
3. **Lot Number:** 10848
4. **Fill Date:** March 2003
5. **Expiration Date:** April 2020

Precautions: This material has Sodium Azide at a final concentration of 0.1% w/v. Skin exposure should be treated by washing with soap and water. Eye exposure should be treated by flushing with a running stream of water under low pressure for at least twenty minutes. Cases of ingestion or injection need immediate consultation with a health care professional. Disposal should be conducted in consultation with the institutional safety committee.

6. **Intended Use:** This serum based secondary reference is for use in assays designed to detect and quantify bovine IgG. Detection methods are limited to those relying on specific reagents such as antibodies directed against bovine IgG since other bovine serum proteins including immunoglobulins are present in this preparation. This is a concentrate and must be diluted as indicated in “Instructions for Use” for preparation of the Bovine IgG Species Standard.
7. **Instructions for Use:** This preparation is provided as frozen preparation containing 31.17 mg/mL \pm 0.62 mg/mL (2SD) (3117 mg/dL or 3117 mg%) Bovine IgG. This must be diluted 1/3 (1 part Secondary reference bovine serum IgG is diluted with 2 parts of buffer). This final material is the Bovine IgG Species Standard described in 9 CFR 113.499(a).6. The value is nominally at 1000 mg/dL which is accepted as the serum level of IgG consistent with passive protection in calves and is within the margin of error for the assay. The recommended buffer is 0.05M Sodium Phosphate containing 0.15M NaCl at pH 7.2.
8. **Test of Reagent:** This reagent is positive for bovine IgG and contains 31.17mg/mL (3117 mg/dL or 3117 mg%).
9. **Container Size, Type, Weight, or Volume:** 2.0-mL cryogenic vials; 1.0 mL/vial.

10. Storage Conditions: It is recommended that the contents of each vial be dispensed in aliquots of approximately 200 µL upon receipt and then frozen at -20°C or less in a sealed container. This precaution is essential in order to avoid the denaturing effects of repeated freezing and thawing and to conserve the reference.

11. CVB Technical Contact: Anna Dash, Bacteriology Section, Center for Veterinary Biologics, (515) 337-6838.

12. Origin and Passage History: N/A

13. Method of Preparation: Pooled bovine plasma from healthy animals was defibrinated, delipidated, dialyzed, concentrated and filtered. Buffer pH 7.4 contains Tris, NaCl, EDTA, PMSF.

14. Other: None.

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

Reagent orders forms (APHIS 2018) are available from:
http://www.aphis.usda.gov/animalhealth/cvb_forms

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