

**National Veterinary Services Laboratories**  
**Pseudorabies –gB Enzyme-Linked Immunosorbent Assay (PRV-gB ELISA) Proficiency**  
**Test Summary**

- 1. Composition of proficiency test panel:** The panel consists of 20, (500) µl samples of sera. The panel contains, positive, and negative sera. The samples are labeled with numbers 1-20.
- 2. Cost of proficiency test:** Click [here](#) to view current NVSL Catalog of Reagents. Additional information on diagnostic reagents, including ordering, payments, shipping details and fees, is located at [www.aphis.usda.gov/nvsl](http://www.aphis.usda.gov/nvsl). Then click on the Reagents and Proficiency Tests link.
- 3. Storage conditions:** Short term (up to 7 days) store at  $4^{\circ} \pm 2^{\circ}$  C. Long term (over 7 days) store at  $<-20^{\circ}$  C in a non-frost free freezer.
- 4. Sample preparation/selection criteria:** Samples with positive and negative results are chosen for incorporation into the panel. Antibody levels arise from naturally and experimentally acquired infections. Each panel sample is tested at least five (5) times by a minimum of two technicians in the Diagnostic Virology Laboratory (DVL), at NVSL.
- 5. Panel quality control:** Samples are monitored for stability and reproducibility. Sera are filtered prior to bottling.
- 6. Timing of the proficiency test distribution and data collection:** The PRV-gB ELISA panel is administered once a year generally in January for United States approved laboratories. The panel is administered internationally upon request.
- 7. Test method:** Performance and interpretation of the Pseudorabies – gB Enzyme-Linked Immunosorbent Assay is per the manufacturer’s instructions.
- 8. Submitting test results:** Participants are required to have data submitted for scoring no more than three (3) weeks after panel distribution. Results are reported to the Head of the Bovine/Porcine/Aquaculture Section of DVL, or designee via fax, e-mail, or mail.
- 9. Scoring of individual panel samples:** For each sample, a participant is considered as passing if the known negative sample is identified as negative. A participant is considered as passing if the known positive sample is identified as positive.
- 10. Personnel pass/fail criteria:** The final score is based on the identification of positive and negative samples. Statistical analysis to determine pass/fail level is done by comparing results when at least 90% of participants taking the panel have submitted results.
- 11. Reporting laboratory test scores (U.S. laboratories only):** Results for each person are reported to the individual laboratory director and AVIC. Pass letters are sent to laboratory directors within 60-90 days of the deadline for receipt of participants’ results. A copy of the

results for all National Animal Health Laboratory Network (NAHLN) laboratories is sent to the NAHLN Program Office.

**12. Remedial actions required for failing laboratory personnel (U.S. laboratories only):**

Personnel are given a second chance to pass a proficiency panel. If they fail a second time, PRV testing by that person is stopped, personnel must undergo training (defined by NVSL), and the person must pass a panel before testing can begin again.

**13. Special requirements (U.S. laboratories only):** Laboratories must meet requirements stated in the Code of Federal Regulations (CFR) title 9, part 85. Participating NAHLN laboratories must comply with provisions outlined in the NAHLN Laboratory Qualification Checklist for Membership of a Veterinary Diagnostic Laboratory. Training received at a laboratory other than the NVSL must be approved by the NAHLN Program Office in conjunction with NVSL.