

# PI ELISA TEST AGREEMENT

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This agreement is between Central States Testing LLC (CST), a privately held organization, and \_\_\_\_\_, owner/agent of the cattle to be tested for persistent BVD infection.

The test to be used to determine PI infected cattle will be the Antigen Capture ELSIA Test or ACE test unless other methodology is requested. CST has extensively validated the ACE test against multiple tests and has found the ACE to be >99% sensitive in controlled laboratory setting with an extremely small chance of false positives (acute infection.) In field samples we know the sensitivity can be compromised, compared to the controlled laboratory studies, as there are issues beyond our control. These issues include, but are not limited to: sample size, collection, condition, conditions of storing and shipping that may affect the sensitivity of the test. Also due to the nature of BVDV (RNA viruses) and their ability to mutate, detection can be affected by any methodology. Mutations affecting detection have been reported in the literature (Grooms et al.). Although very rare, this must be considered. Considering all these conditions that can affect any test methodology we know that the ACE test is the most robust and still provides the best sensitivity of all the methodologies available for BVDV detection.

In the feedyard setting, CST does not feel that the false positive rate is a financial issue but with valuable breeding stock CST does recommend verification by retesting for conclusive results. CST will retest positive samples free of charge when a second sample is resubmitted 14 days after the initial test and submitted as a retest.

Pooling of samples can decrease the sensitivity of the ACE test and therefore CST does not recommend nor practice pooling of ear notch samples.

Therefore; by signing below, the client understands the ACE test will find a low percentage of false positive animals and it is the client's decision on retesting for verification.

\_\_\_\_\_  
Owner/Agent

\_\_\_\_\_  
Date

\_\_\_\_\_  
Central States Testing

\_\_\_\_\_  
Date