

Innovative Technology You Can Use With Greater Ease...and Certainty

A state-of-the-art assay, BoVir[®] detects both virus genotypes I and II and all sub-genotypes.

BoVir[®] is *real time* Reverse Transcription Polymerase Chain Reaction (*real time* RT-PCR), but with a unique, proprietary lysis buffer and reagents to improve both the accuracy and turnaround time of test results.

Easy To Use—Simple process providing results in under 4.5 hours, with one lab tech at 1,000 samples per day

- Proprietary, 2-step, 70-minute incubation lysis buffer
- Homogenate pipetted straight from vial to plate with no additional RNA extraction necessary
- Two-component, one-step RT-PCR master mix
- *Real time* PCR instrument, no further steps needed

BoVir[®] Reagents

Accuracy That Closes the BVDV Uncertainty Gap[™]

- **Unparalleled Easy-to-Use Testing Protocol.** Fast and simple sample preparation helps eliminate probabilities for human error
- **Sensitivity and Specificity for Superior Results.** Proprietary molecular assay design provides unparalleled diagnostic performance for eliminating false positives and false negatives
- **Unsurpassed Early Detection.** Newborn calves detectable as early as one day old versus up to 120 days with other testing methods
- **Diverse Genotype and Strain Detection.** Its effectiveness is validated by European governmental reference labs for its ability to detect all 68 referenced strains of BVDV, including atypical European and North American strains, such as the HOBI and the H138 strains



Ready-to-use, proprietary lysis buffer. Homogenate pipetted straight into PCR well with no further RNA extraction.



Capability for complete automation of sample prep, pooling and PCR well transfer to meet any lab volume, with the ability to pool 1,000 samples in less than 20 minutes.



High Throughput—

Less time and fewer steps required

- Completely automated from sample prep to PCR well transfer
- Ready-to-use lysis buffer for faster prep; eliminates incorrect handling that can lead to false positives and false negatives
- Superior cycle sensitivity delivers early detection with C_T value of 23-28 for greater accuracy
- Accuracy reduces the need for retesting

Superior Sensitivity and Specificity—

Reliable, rigorous and routine

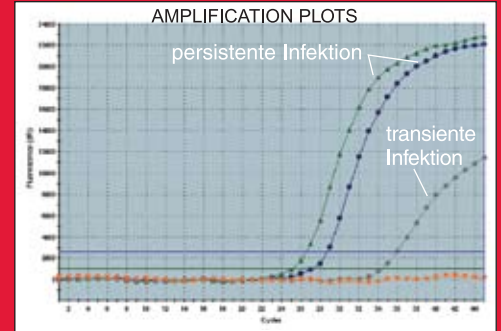
- Detects 10-100 viral particles in 1ml of whole blood
- Higher analytical sensitivity to previously published methods by a factor of 50-500
- Can detect all 68 referenced strains, including atypical strains, such as the HOBI and H138 strains
- Enhanced sensitivity allows pooling for European governmental-approved protocols
- Detects viruses as early as the first day of birth, unlike other testing methods

BoVir® Outperforms ELISA

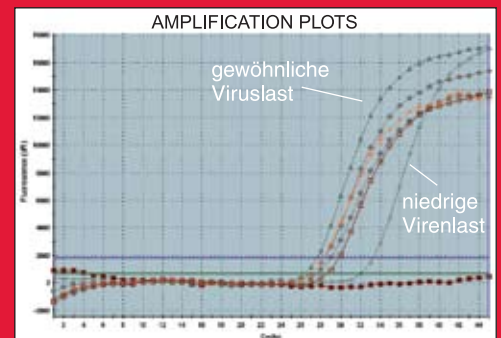
BoVir® accurately identifies and differentiates both Persistent Infection (PI) and transient infection when using blood as the sample type. When using ear notch samples, BoVir® detects PI animals only.

- BoVir® closes the diagnostic gap by detecting BVDV even in newborn calves on the first day of birth despite maternal antibodies that mask the infection for up to 120 days
 - *Antibodies from colostrum interfere with ELISA test results creating false negatives*
- BoVir® delivers fast, simple ear notch preparation with proprietary lysis buffer
 - *ELISA methodology is time- and labor-intensive and requires overnight protocols in the European Union*
- BoVir® ear notch homogenate can be stored and used again, up to 40 times, if further molecular testing is desired
 - *ELISA sample quantities and homogenate composition limit retesting options. New samples must be retrieved from the farm*

BoVir®. The most advanced BVDV diagnostic system on the market.



BoVir® accurately identifies and differentiates both Persistently Infected (PI) and transiently infected cattle in the same blood sample pool of 10.



Highly sensitive, BoVir® detects 95 percent of BVDV strains in ear notch samples with C_T values of 23-28. Low viral load strains still detected in remaining 5 percent with C_T values of 28-32.

Innovation by



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