

Current Advances

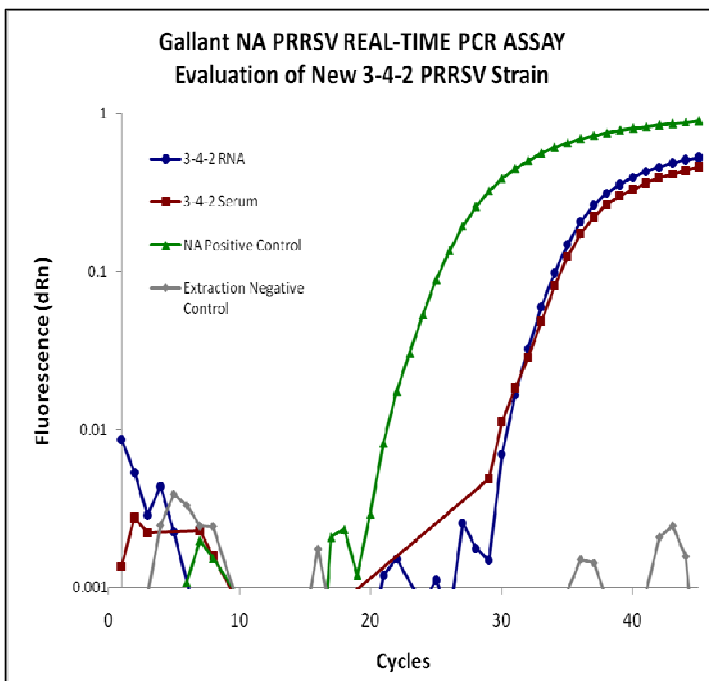
November 19, 2009



Providing Unique Technology for Animal Health

To maintain a high quality of service, Gallant took a proactive approach to alleviate any concerns of our Canadian boar stud clients by assuring them that a newly identified 3-4-2 PRRSV strain could be detected in monitoring samples submitted for PCR testing. Effective testing and detection reduces the risk of downstream PRRSV infections in sow herds receiving semen.

In the September 16, 2009 Swine Disease Eradication Center – PRRSV Diagnostic Update¹ it was reported that an undetected boar stud infection resulted in 2 sow herds becoming infected. The infection was confirmed by seroconversion using the IDEXX ELISA test. The new PRRSV strain was not detected by the NAEU Taqman PCR test at the University of Minnesota Veterinary Diagnostic Laboratory and has a new RFLP cut pattern defined as 3-4-2. Consequently, this has raised concern about the capabilities of other commercially available PRRSV PCR test kits to detect the 3-4-2 strain.



It is scientifically accepted that as new and genetically diverse PRRSV strains emerge, PCR-based assays performed at veterinary diagnostic laboratories may not detect every new strain 100% of the time. Therefore, Gallant has addressed this concern by assessing our current real-time NAEU PRRSV PCR test for its ability to detect the new 3-4-2 PRRSV strain using RNA and serum samples kindly provided by the Minnesota Veterinary Diagnostic Lab at the University of Minnesota. The assessment showed that **Gallant's NAEU PRRSV PCR test could effectively detect the new 3-4-2 NA PRRSV strain.** Positive PRRSV results were observed for both the RNA (blue line on graph) and serum (red line on graph) samples received and tested at Gallant Labs.

Since Gallant performs an annual review and up-date of the molecular components used in our NAEU PRRSV PCR real-time test, it is not unexpected that the 3-4-2 PRRSV strain was detected. It is this continuous improvement that increases the detection of any new emerging PRRSV strains.

If you have questions or would like more information, please contact Guy Moser at guymoser@on.aibn.com

Reference: ¹ <http://www.aasv.org/news/story.php?id=3770>

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