

## **New APV test (APV-N) at the University of Minnesota Veterinary Diagnostic Laboratory**

A new test for APV (APV-N) is available at the University of Minnesota Veterinary Diagnostic Laboratory. Developed by scientists within the University, the new test boasts several advances:

1. **Saves Time:** More tests can be performed in less time with the new test. The RT-PCR cycling time has been reduced by more than 50%.
2. **Reduced Basic Sample Cost:** Large scale testing is more economical. The basic cost of the RT-PCR step has been reduced by 40%.
3. **Increased Sensitivity:** Compared to the previous test, the new APV-N test is 10x more sensitive for virus isolates and turbinate homogenates and 10-1000x more sensitive for tissues and tissue swabs.
4. **Clinical Validation:** The test has been validated with hundreds of samples. These include clinical and research cases and a variety of different organ homogenates and swabs. More tests were positive (“true positives”) with the new APV-N PCR assay than the previous technology.
5. **Specificity Testing:** The test is specific for subtype C viruses. Other potential viral and bacterial respiratory pathogens did not interfere with the test.
6. **Uses existing resources:** Can be run with existing Real-time PCR equipment.

New and improved diagnostic laboratory tests will ensure that APV will be quickly and reliably detected. Such rapid and reliable detection is a critical part of an integrated disease control and eradication program.

For more information about the new APV-N test or for questions about sample submission, please contact the University of Minnesota Veterinary Diagnostic Laboratory at (612) 625-8787 or [vdl@umn.edu](mailto:vdl@umn.edu).