



Detecting Aleutian mink disease virus (AMDV) with AeroCollect® – simple testing, quick results and earlier detection

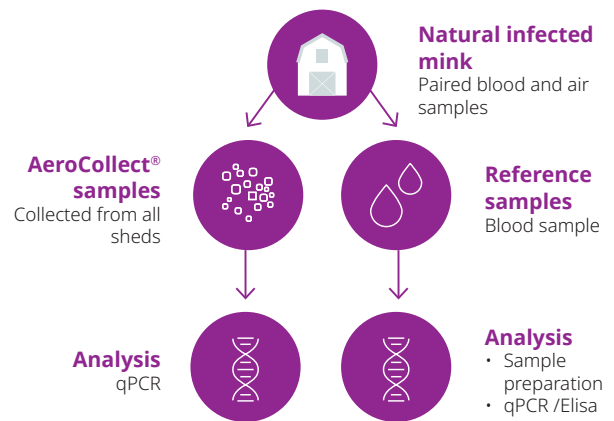
- **Simple sample collection** – an air sample with AeroCollect® is simpler and considerably less time consuming compared to traditional blood sampling.
- **Non-invasive testing** – The minks are not affected by the air sampling and therefore samples can be collected at all times during the year.
- **One handed sample collection** – The non-invasive nature of the sampling procedure allows for single person to collect the samples.
- **Screen your entire farm in less than a day** – the fast and easy sample collection allows for frequent screening of your farm to enable earlier detection of emerging disease.

Detection of AMDV with AeroCollect® compared to traditional testing

The AeroCollect® system is validated as a spot test for the detection of AMDV in samples collected from mink farms in accordance with the guidelines described in EN ISO 16140-02:2016. The study was carried out as a paired study comparing the air samples with the traditional blood samples. The study demonstrated a sensitivity, specificity, and accuracy of 93.0, 88.3, and 91.0 respectively. The measure of agreement between the two methods, Cohen's kappa, was found to be 0.87 which constitutes a "very good agreement" according to the ISO-standard.

Furthermore, the validation study establishes that the sensitivity of the AeroCollect® samples is similar to that of a spot-based blood sample test. On farm level the spot-based blood sample test and the air sample-based test had a perfect agreement, corresponding to a kappa value of 1 seen in the rightmost column in the table.

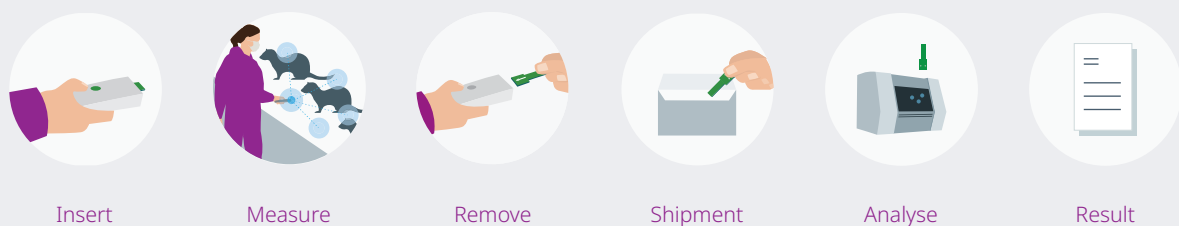
		Shed by shed comparison	Farm level comparison
Sensitivity	SE	93.0 %	100 %
Specificity	SP	88.3 %	100 %
Accuracy	AC	91.0 %	100 %
Cohen's Kappa	κ	0.87 (very good agreement)	1 (perfect agreement)



When should testing with AeroCollect® take place?

AeroCollect® allows for frequent testing due to the non-invasive nature of the sampling process. A frequent testing regime increases the odds of detecting an emerging disease spreading within the farm at an early stage and initiating the correct actions to reduce the economic consequences of a potential outbreak.

The process from sample collection to result



Would you like to learn more about what AeroCollect® can do for you and your company?

Contact us at
+45 43 25 14 00
info@aerocollect.dk
or visit aerocollect.dk