

## Easy and early detection of poultry pathogens by air sampling



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AeroCollect® helps  
to detect a broad range  
of diseases at an  
early stage



## AeroCollect empowers you to monitor the entire flock



**Take air samples  
for the entire flock**

See if viruses and bacteria are present in the flock with a single sample collection



**Ensure early-stage  
detection**

Get reliable indicators earlier than any clinical symptoms or shedding of pathogens



**Use one sample for  
multiple diseases**

Monitor zoonotic and production-related diseases with one 5-minute collection



**Improve resource  
Efficiency**

Save time and costs by streamlining collection and reducing sample numbers



## Gather samples from airborne dust, water and cells

With AeroCollect in your hand, you can diagnose a poultry herd within minutes and be alerted in time about the presence of bacteria and viruses.

AeroCollect makes it possible to optimize animal welfare, production quality and reduce the use of antibiotics.

**Prevention is better than cure**



### Features

- Easy to use
- Fast and accurate test results
- Cost effective

### Facts

- 200 ml/min
- 400 V
- Chamber volume ~ 10  $\mu$ l
- Concentration: 1 to 100.000
- Power: 2xAA batteries
- Disinfection: Virkon™ S and Ethanol

## Quick, reliable and user friendly workflow



Insert → Measure → Remove → Ship → Analyze → See results



## Samples within minutes, results within hours

### 5-minute collection

Walk around the farm for 5 minutes with the hand-held device to collect the sample.

Bacteria and viruses are captured from airborne dust, water and cells, and retained in the sample chamber by a powerful electric field.



Insert



Measure

### Laboratory analysis

Send the sample to the laboratory for qPCR analysis that will show the presence of selected bacteria and viruses.

**No extraction needed!**



Remove



Ship



Analyze


### Same-day results

The analysis only takes a couple of hours. The farmer can usually see the results on the same day as sample collection!



See results

## Tested on poultry and swine

	Accredited by DANAK	Validation complete	Pre-validated	
 Poultry	<i>Salmonella</i> <i>Campylobacter</i> IBV IBDV	<i>E. Coli</i>	Pasturella <i>Mycoplasma</i> Avian Influenza Virus Avian Reovirus <i>Clostridium perfringens</i>	Chicken Astrovirus Marek's Disease Virus Fowl Adenovirus Newcastle Disease Avian rhinotracheitis
 Swine	APP	MRSA	African Swine Fever PCV2 Swine Influenza Virus PRRSV	

## Strong performance results in third-party evaluations

### Complete

#### >> *Campylobacter*

Detection of *Campylobacter* spp. from air samples and boot swabs from 2 broiler farms and 6 sheds

#### >> *Salmonella*

Detection of *Salmonella* spp. from air samples and boot swabs from 4 broiler farms and 16 sheds

### Available on request

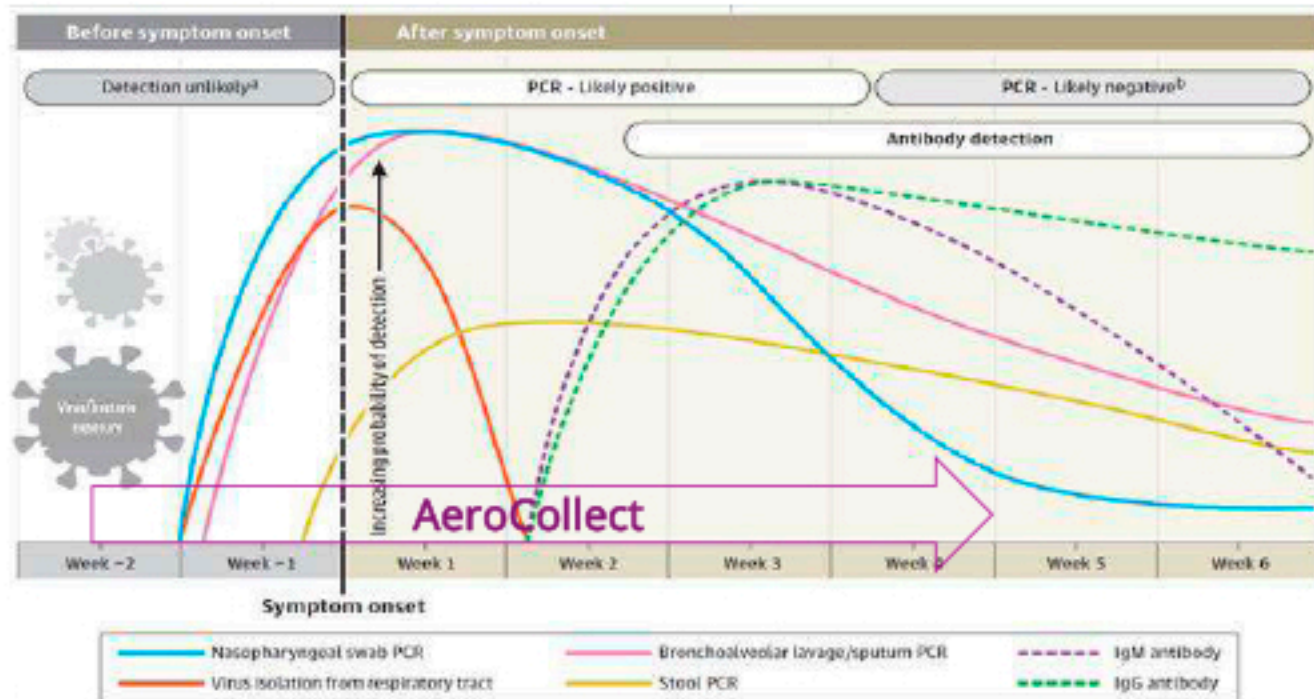
#### >> *Mycoplasma*

#### >> Infectious Bronchitis Virus

#### >> Infectious Bursal Disease Virus



## Increasing probability of detection with AeroCollect



The application can be used for screening, diagnostics and monitoring

Pathogen	Testing schema	Reason for testing	AeroCollect
Bacteria and virus e.g., <i>Mycoplasma</i> , <i>Campylobacter</i> Salmonella, Influenza, ASF ...	(Bi)Weekly	Screening	Able to detect pathogen up to 5 day's earlier
Viruses e.g., (swine)Influenza, African Swine Fever Virus ...	When clinical symptoms	Diagnostics	Present or absent of pathogen, sample is suitable for sequencing.
Vaccination efficiencies e.g., IBV, NDV, IBD, Influenza, ...	Weekly	Monitoring	Confirmation of success of vaccination, sample is suitable for sequencing

THANK YOU!

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Creating the future together

AeroCollect is the monitoring  
technology of the future enabling of  
highly reliable surveillance  
directly from the air

Explore our solutions

