



# Pigs

## What is AeroCollect?

The AeroCollect® is an air sampling device designed to capture bacteria and viruses directly from the air inside conventional pig production facilities. The system is designed for diagnostics representative of entire herds or facilities. From a single fifteen minutes air sample collected in the disposable sample chambers analysis can be conducted for several pathogens. This in turns makes the routine monitoring of specific pathogens both logistically and economically possible.

## How does it work?

During sample collection air is sucked trough the sample chamber. A strong electrical field generated by electrodes placed on either side of the sample capture and concentrate and concentrates bacteria, viruses, and other microscopic particles in the sample chamber. The AeroCollect® is developed especially for performance in dusty environments and therefore does not rely on a traditional filter.

## How do you collect the samples?

In pig production standard samples are collected by walking along the central walk-way through the whole facility or section to be tested for a minimum of 15 minutes. During the sample collection procedure, the AeroCollect® is held over the pens. If possible, allow the pigs to breathe into the sample chamber pointed towards them.

Before and after collection, the sample chamber should be stored in the accompanying sealed container.

## What is the process flow?

The disposable sample chamber is inserted into the AeroCollect® device and the samples are collected as described above.

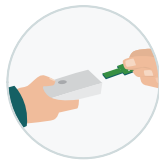
After sample collection, the sample chamber is removed from the AeroCollect® device and finally sent to the laboratory, where the content is analysed for pathogens using a qPCR analysis. The sample does not require any purification or concentration and can be used directly in the qPCR. The results are ready within one to two hours.



Insert



Measure



Remove



Shipment



Analyse



Result

### Storage



Collected samples may be stored up to a week under normal room temperature conditions. It is recommended to store the samples in the fridge if the samples are to be stored for longer times. For long term storage the samples may be stored frozen.

### Transportation



AeroCollect® samples may be shipped under ambient conditions using traditional courier or postal services. If stored under ambient conditions the samples should be analysed within 7 days from the time of collection. The storage of the sample chambers in the resealed containers combined with the small access holes to the chamber itself minimize any risk of contamination of the samples during transport.

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

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