



AFRICAN SWINE FEVER

By your side, we care.
Discover our solutions.

CID LINES
An Ecolab Company

WHERE
HEALTH
BEGINS



YES, PREVENTION WORKS

How do you cope with an incurable pandemic like African Swine Fever?

African Swine Fever (ASF) is a global pandemic.

Since the disease has been reported, it has led to the culling of hundreds of millions of domestic pigs in an effort to control its spread.

The virus spreads at an untraceable speed. It kills wild boars as well as domestic pigs. It can be found in pork and even can travel in vehicles. ASF is causing a worldwide economic disruption.

ASF virus clings to clothing, equipment and tools. It survives in feed, water and meat. Personal hygiene, material hygiene, feed, water and entrance hygiene are crucial. Biosecurity is key.

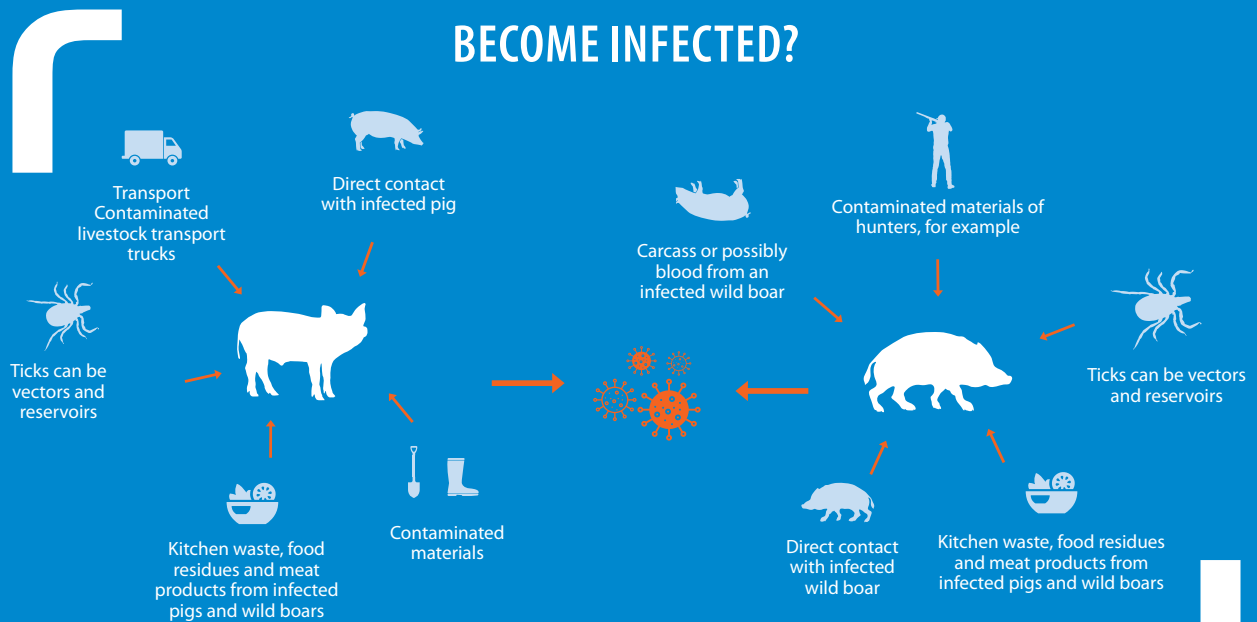
BIOSECURITY IS THE ONLY ANSWER

Currently, there is neither a cure nor a vaccine for the disease.

Solid biosecurity and thorough hygiene are your only arsenal to defend your farm against ASF. The good news is that they are a very reliable and powerful defenses.

That's where we can offer our help and solutions to make sure your prevention measures are implemented in a correct way!

HOW DO PIGS AND WILD BOARS BECOME INFECTED?



Adapted from Wageningen Bioveterinary Research

Routes of transmission

One of the main routes of transmission is direct contact, a healthy pig being exposed to a sick one's body fluids and feces. So make sure your farm has a good fence and the barn is completely closed to avoid contact with other animals.

47% of the total meat consumption in the EU is from pork meat, this represents 50% of total meat production

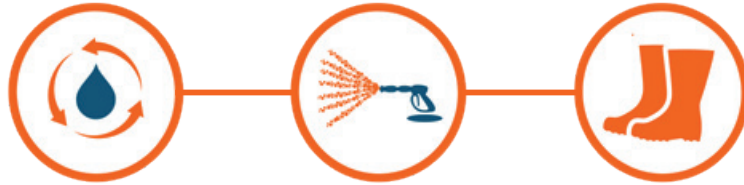
Pig farming is a worldwide economic force: all the more reason for staying healthy and safe!

Pig farming is a worldwide economic pillar that provides thousands of jobs and feeds millions. Therefore diseases or pandemics such as African Swine Fever touch millions of lives all over the globe. Here are a few facts and figures.

39% of the total EU meat output of animal production is from the pig sector

21% of the total pork production is exported, representing 78% of total meat exports and 4.7 million tonnes carcass weight (processed products and offals included) with a value of 10.2 billion euros

BIOSECURITY IS ALSO IN YOUR HANDS



Cleaning

Disinfection

Protection

9 tips to keep by your side and to start acting now

Having the right products and a biosecurity partner by your side to care for your farm and your animals is a big part of the solution. But there are a lot of - often tiny - steps that you can take yourself to stop the disease.

1. Never feed your animals with garbage or leftover food (leftovers of meals, household waste).
2. Make sure hand hygiene is properly done, wash and disinfect your hands before entering the barn.

3. Every person on your farm needs to follow the rules. Every visitor presents a risk of transmitting the disease.

4. Use boot baths outside the barn, at every entrance, make sure you manage them well to protect your farm from introduction of diseases via shoes or boots.

truck drivers. If they don't follow procedures they represent a clear danger to your farm.

8. The virus can spread via feed and drinking water as well, make sure your feed storage silos and drinking water lines are cleaned and disinfected after every cycle.

BIOSECURITY IS ESSENTIAL

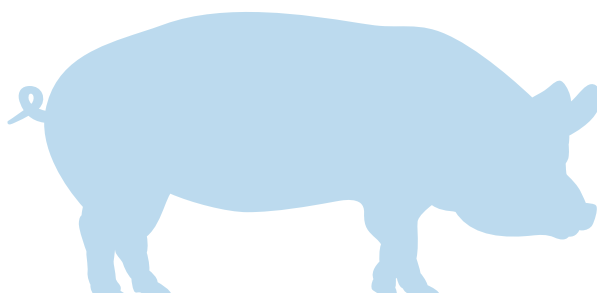
5. Make sure transport/vehicles coming to your farm are cleaned and disinfected properly.

6. Place disinfecting wheel baths and spraying bows at the entrance of your farm to avoid introduction and transmission of the disease via trucks.

7. Encourage and promote personal hygiene and biosecurity with your

9. Take samples of your drinking water source to be sure this is not contaminating your barn and animals.

If you have any questions about these steps or require information on products related to the steps, just ask your distributor or your CID LINES, An Ecolab Company representative.



The critical points of biosecurity

ENTRANCE HYGIENE



- Kenoderm™, Kenosept L/G for hand hygiene
- Virocid® in a boot bath for boot hygiene

TRANSPORT HYGIENE



- Biosafe/Keno™san for cleaning
- Virocid® for disinfection (Proven efficacy against ASF virus)
- Personal hygiene for truck drivers

BARN HYGIENE

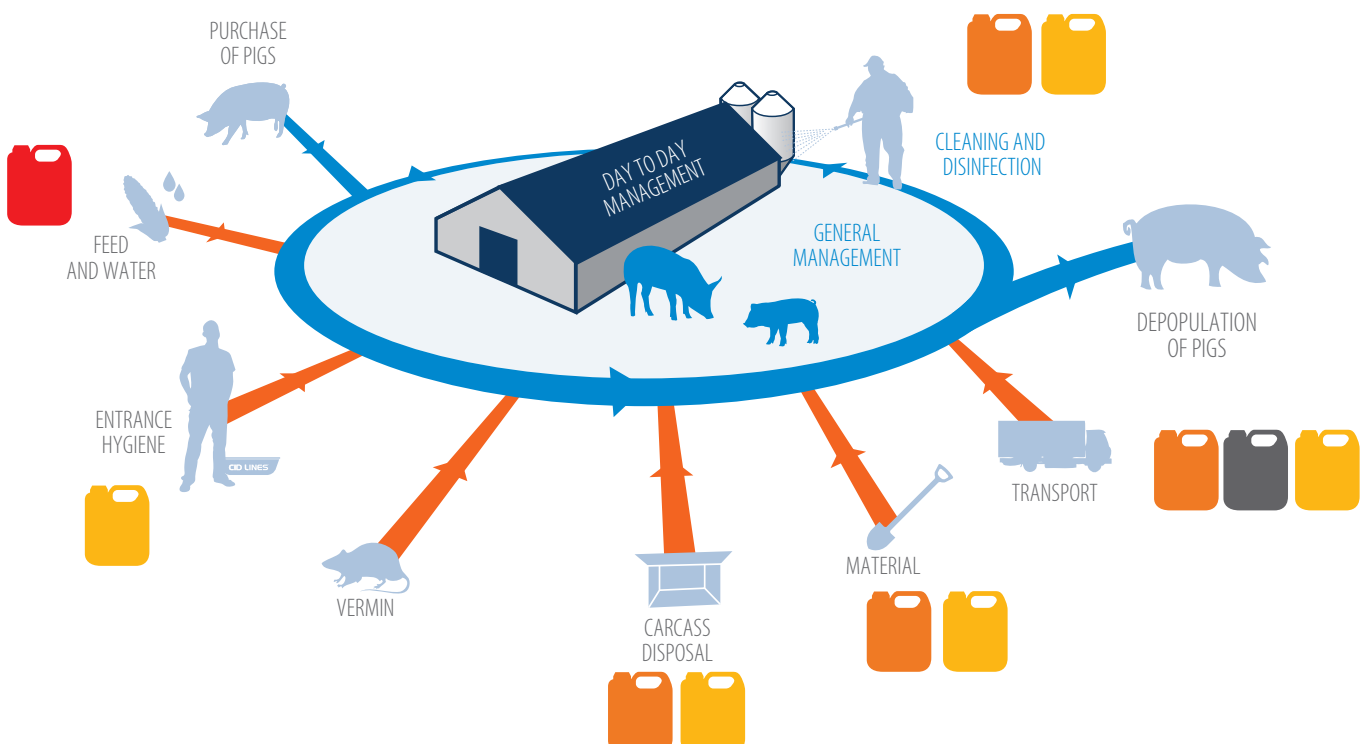


- Keno™san for cleaning
- Virocid® for disinfection

BY YOUR SIDE IN THE PREVENTION AGAINST ASF

Break through the route of transmission

You have the power to resist and prevent African Swine Fever. CID LINES, An Ecolab Company is by your side with products, solutions and best practices.



DRINKING WATER DISINFECTION



Cid 2000 during production for animal consumption (Proven efficacy against ASF virus).

DRINKING WATER SYSTEM



Cid 2000 at sanitary stop to clean the whole system

Discover our products



foaming alkaline degreaser with superior cleaning properties



foaming alkaline cleaner, safe on the softest metals



extremely concentrated broad spectrum disinfectant



water line acidifier/disinfectant

Virocid®

Virocid® has been tested against ASF virus by:

- the Plum Island Animal Disease Center (PIADC), Greenport, New York, USA
- the European Union Reference Laboratory for ASF (CISA-INIA, Madrid)
- the Biomedical Science Research Institute of Hoseo University (Bacbang, Asan, Korea)
- the Federal Research Center for Virology and Microbiology, Vladimir Oblast, Russian Federation
- Virocid® is approved by the US Environment Protection Agency (EPA) against ASF virus. *The EPA registration number is 71355-1.*

VDA certified

For vehicle safety, we only use detergents and disinfectants that are certified by the German Association of the Automotive Industry (VDA) as 'non corrosive'. Virocid® is VDA approved at 1% as class A.

THE CRITICAL POINTS ON OUR FARM

WHAT EXPERTS SAY...

Feed

Pigs should only be fed with products that are specifically intended for animals. Products or by-products of animal origin constitute a very real risk of contagion of infectious diseases.

Feed bins

To prevent contamination of feed and loss of nutritional value, bins must be cleaned regularly, preferably with a product that prevents microbiological growth in feed bins. Empty the bins completely and clean and disinfect auger after every cycle.

Water

Your animals need water to keep them healthy and to keep their body functioning properly. Water transports various nutrients, is responsible for digestion and plays a key role in regulating an animal's temperature. Make sure the drinking water for your animals has an optimal microbiological quality. Prevent the growth of pathogens by using a water disinfectant during the production cycle. At sanitary

stop you need to clean and disinfect the whole drinking water system to remove biofilm and to reduce the general infection pressure as much as possible before new animals come in.

Transport

Drivers must be sufficiently informed about the rules of the farm:

- The cab of the trucks must be kept always clean, and regularly disinfected. When accessing the farm, additional measures like hand hygiene and changing clothing or footwear must be taken
- The cargo section of trucks arriving to collect animals must be cleaned, disinfected and dry (with efficacious and non-corrosive chemicals)
- Drivers should not walk around the farm and definitely shouldn't enter the barns
- All equipment used by drivers for loading or unloading should be cleaned and disinfected after transport

Visitors

Make sure there is a registration of all the people entering the barn.

When entering the hygiene lock, they need to register, wash and disinfect hands and take a shower. Then they go to the clean zone of the hygiene lock and wear farm specific clothes and farm specific boots.

Walk through a disinfection bath before entering the barn. Foot dips should be filled with a disinfectant with proven efficacy against ASF virus.

Barn

Make sure cleaning and disinfection is properly done after every production cycle to reduce the general infection pressure as much as possible before new animals come in.

Use the appropriate products to have a broad-spectrum working action and to be sure that you kill ASF virus. Ask for the product testing report on ASF virus!



Elien Claeys, Biosecurity expert,
CID LINES, An Ecolab Company



**“Today, no country is safe
from African Swine Fever.”**

- Dr Monique Éloit
Director General of the World
Organisation for Animal Health (OIE)

CID LINES[®]

An Ecolab Company

Fostering quality of life means caring for every stage of the cycle. Everywhere it matters, health means the world. And health, we believe, starts with hygiene. It's why at CID LINES, An Ecolab Company, we devote all our passion, experience, and expertise to safeguarding animal health and hygiene. Because no matter where you are in the food chain, health matters. And this is where health begins.

**Interested in our solutions? Go to www.cidlines.com
or ask your dealer for more information.**

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Discover our
brand story

