


VirusnipTM

SWINE FARM DISINFECTANT

**The faster way to protect
your farm against disease**

(including PRDC, PRRS virus and PCV-2)



The benefits of farm bio-security using Virusnip

Giving your herd the best protection with Virusnip

Modern farming demands implementation of 'best practice' bio-security measures to protect against the very real threat of biological disease such as Foot and Mouth Disease, PRRS virus and Classical Swine Fever.

Prevention is definitely the best cure so effective bio-security measures are vital to protect pig producers against the costly impact of disease. These costs are not just witnessed on farm but also in the market place, because disease outbreaks frequently impact negatively on consumer confidence leading to reduced demand and diminishing returns.

Virusnip is an advanced soluble powder disinfectant for cleaning and disinfecting all types of swine production operation.

Instructions for using Virusnip are on the back of this brochure, and following are recommendations that will help to protect your animals, your farm and your profits.

- Destroys PRRS virus and PVC-2, as well as costly respiratory and enteric diseases (e.g. PRDC, colitis) causing organisms, and helps protect your business
- Reduces the risk of food poisoning pathogens like *Salmonella*, *Campylobacter* and *E.coli* causing disease and entering the food chain
- Faster disinfection improves overall herd health and productivity at the same time as reducing labour and treatment costs
- Removing pathogens reduces the risk of disease which results in higher ADG, improved feed conversion and reduced mortality and therefore increases profitability
- Virusnip is suited to all swine production operations and is the ideal disinfectant for all-in, all-out farming practices

Virusnip is a powerful, new powder disinfectant with a special, unique *REGENU*™ chemistry allowing it to act faster, and work smarter, in all farm environment conditions. And, because Virusnip destroys microbes, like bacteria, fungi and viruses you can always be confident that you have given your farm (and your pigs) the best possible protection

Virusnip helps protect your farm against:

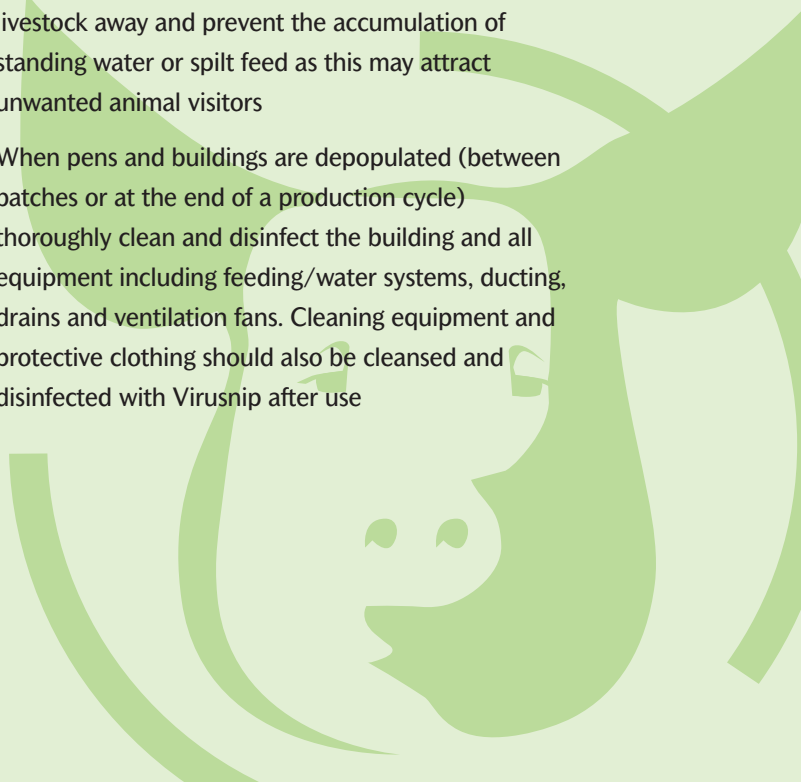
- PRRS Virus
- PCV-2
- PRDC
- *Mycoplasma spp.*
- Classical Swine Fever
- Foot & Mouth Disease
- *Salmonella spp.*
- Colitis
- Swine Dysentery
- Swine Vesicular Disease
- *E.coli spp.*
- *Campylobacter spp.*
- *Staphylococcus aureus*
- Fungal diseases

Keeping your farm and your herd safe



- It is best to practice all-in all-out production, where there is clear segregation between pens and buildings, including restricting airflow. Thoroughly clean and disinfect all pens, ventilation equipment, feed and water systems and drains between batches. This process should ensure no dung, bedding or unused feed remains and, where possible, the slurry should be drained
- For farms not deploying all-in all-out practices all farm workers must move in a single direction throughout the farm building(s) starting from the nursery pens, then growers and finally finishers. As pigs progress through the farm all pens must be cleaned and disinfected before pigs are introduced
- Wash all farrowing pens with Virusnip to reduce the risk of sows infecting their newborn piglets
- Isolate new breeding stock for a minimum period of 60 days and assess their health status
- Ensure your farm has an effective fly control program
- Destroy sick, or injured animals which cannot be cured and dispose of all dead animals within 24 hours of death. Designate a site near the farm perimeter for dead carcasses to be collected away from the healthy pigs
- All clothing and footwear must have been cleaned and disinfected before entering buildings and pastures. Provide visitors with clean clothing and footwear, if required

- Place disinfecting footbaths at the entrance points to buildings and pastures and replenish disinfectant weekly (or if it becomes heavily soiled)
- Ensure all vehicles that visit the farm are clean. Have a supply of Virusnip, high pressure washers, hoses, brushes and water available for visitors to clean their vehicles, equipment and footwear, as required, before entering the farm. Keep vehicle movements in and out of the farm as far away from the pigs and their housing as is possible
- Clean water-feeding systems regularly and make sure they are sealed so they cannot be contaminated by other animals. They should be disinfected between batches
- Routinely clean and disinfect all farm equipment and vehicles before and after use, especially before moving from one building to another
- Clean and maintain feed bins, hoppers and feeding equipment regularly to ensure they do not contaminate the feed and they cannot be breached by other animals. Obtain feed from an accredited supplier who regularly tests for microbial contamination
- Keep wild birds, rodents, dogs, cats and other livestock away and prevent the accumulation of standing water or spilt feed as this may attract unwanted animal visitors
- When pens and buildings are depopulated (between batches or at the end of a production cycle) thoroughly clean and disinfect the building and all equipment including feeding/water systems, ducting, drains and ventilation fans. Cleaning equipment and protective clothing should also be cleansed and disinfected with Virusnip after use



Cleaning and disinfecting with Virusnip

Before cleaning or disinfecting with Virusnip remove all animals from the building and wear appropriate protective clothing.

Use	Dilution rate	Application
Terminal disinfection		
For farm buildings, equipment and tools – to destroy viruses, bacteria and fungi	1:100 (1% solution)	Use a low pressure apparatus or other suitable spraying device and apply once at a rate of 300 ml/m ² and leave for 10 minutes
Routine cleaning and disinfection		
For surfaces, buildings, equipment and tools	1:200 (0.5% solution)	Use a low pressure washer or other suitable spraying device and apply once at a rate of 300 ml/m ² and leave for 10 minutes
Disinfection of drinking water systems		
Final cleaning and disinfection	1:200 (0.5% solution)	Fill the dispensing water reservoir (header tank) and the feeder or drainage system with the working solution. After 60 minutes drain and flush with clean water
Continuous disinfection	1:1000 (0.1% solution)	Dose the header tank with appropriate amount or apply through a dosing system
Aerial disinfection		
Spraying into the air (misting)	1:200 (0.5% solution)	Use a pressurised device set at the finest mist setting or use a backpack sprayer. Apply a single dose of the solution at a rate of 1 litre/10m ² of floor space
Cold fogging	1:100 (1% solution)	Use a mechanical fogger applying a single dose of the solution at a rate of 1 litre/10m ² of floor space
Thermal fogging	1:50 (2% solution)	Use a thermal fogging machine and apply at a rate of 1 litre/40m ² of floor space
Disinfection of barriers for footwear, vehicles and animal passage		
Foot baths	1:100 (1% solution)	Replace with a new solution every week or when heavily soiled

For further information on Virusnip applications and performance please contact Novartis Animal Health Inc.

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20060124

