

Acid dry powder, direct spray



DESCRIPTION

solve the animal farm ammonia and toxic gases

MAIN INGREDIENTS

Nano-photocatalytic material; Photosensitive particles; Modified nano-hydrated aluminosilicate; Organic acids

INDICATIONS

It is used to kill gram-negative and gram-positive bacteria, fungi, viruses and parasitic ovum, absorb of moisture and harmful gases such as ammonia, hydrogen sulfate, etc. Thus improve animal culture environment, block the routes of bacteria, reduce stress response and prevent respiratory diseases. It can also be used for wound disinfection and cleaning the body of new-born animals.

DOSAGE AND ADMINISTRATION

Spray the product in the animal house evenly after turn off all of the ventilation system.

For daily preventive use, 5 g/m³, once a week.

When epidemics such as diarrhea, foot and mouth disease or unknown high fever occurs, 15~20 g/m³, once a week. The frequency and dosage can be adjusted according to the situation of the epidemics.

Use for off the tail, castration, skin damage and other trauma wound disinfection, to avoid infection, can also be use for newborn animals' body refreshed.

Pack Size: 1kg, 5kg

THE MAIN FUNCTION SUMMARY

1. Maintain acidic environment

Unique weak acid buffer formula , to maintain the breeding of acidic environment (PH3.5- 4.5), most of the pathogenic bacteria when PH value is lower than 4 will die.

2. Broad-spectrum antibacterial

Kill bacteria and viruses, fungi, parasite eggs, do not produce resistance.

3. Adsorb harmful gases

Super-adsorption of ammonia, hydrogen sulfide and other harmful gases, reduce animal stress, prevent respiratory diseases.

4. Drying environment

Adsorption of moisture and moisture, keep the environment dry, blocking the pathogen pathogenesis.

5. Long-term maintenance of the barn environment

The role of long, one time spray effective one week, completely replace the conventional liquid non-toxic disinfectant.

6. Non-toxic safety

No need to be empty animal house to sterilization, safe and comfortable, no stimulation, no corrosion, no poison, green, natural, environmentally friendly.

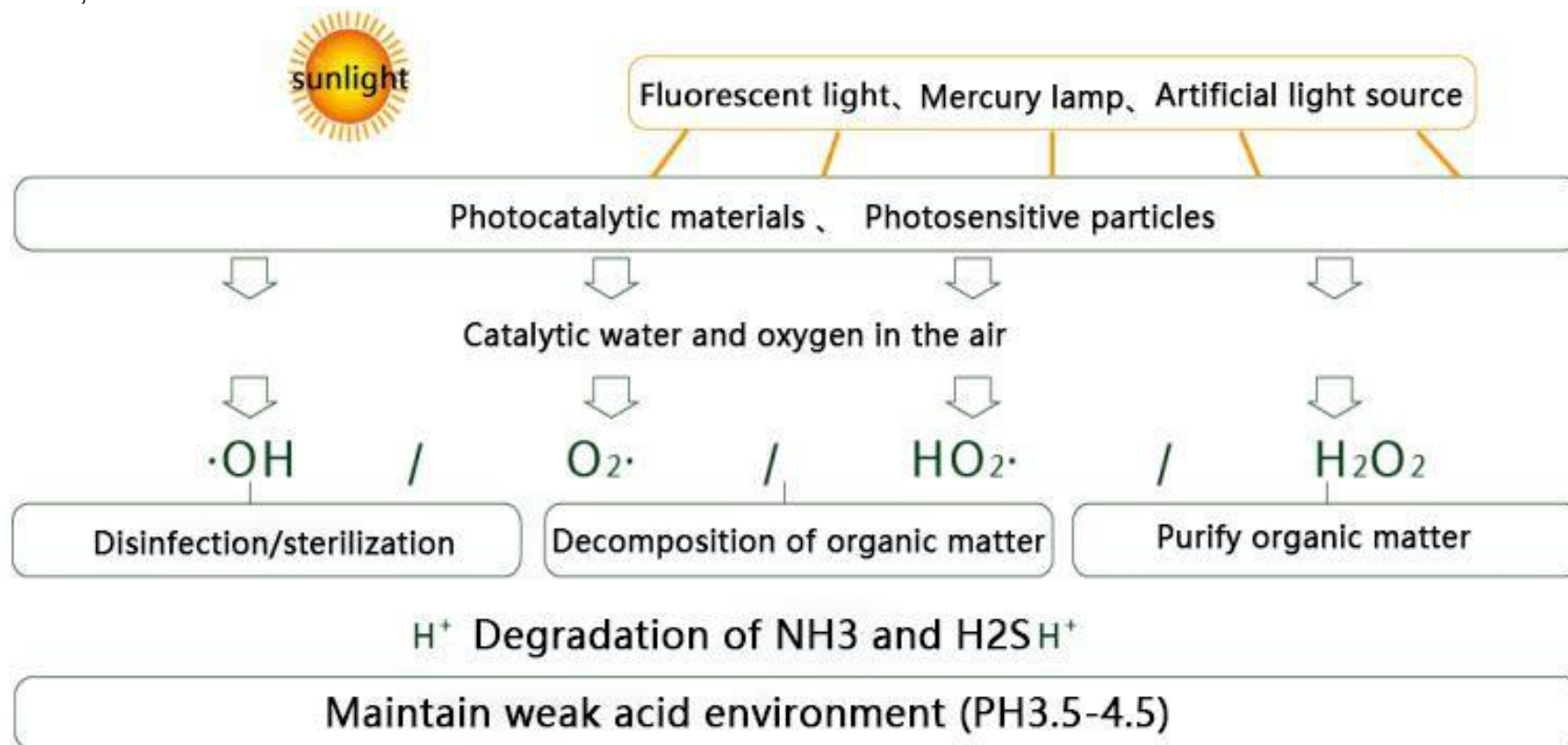
7. Improve farming efficiency

Improve the overall aquaculture environment, improve individual production performance and product quality, reduce costs and improve overall efficiency.

8. Topical hemostasis, promote wound healing

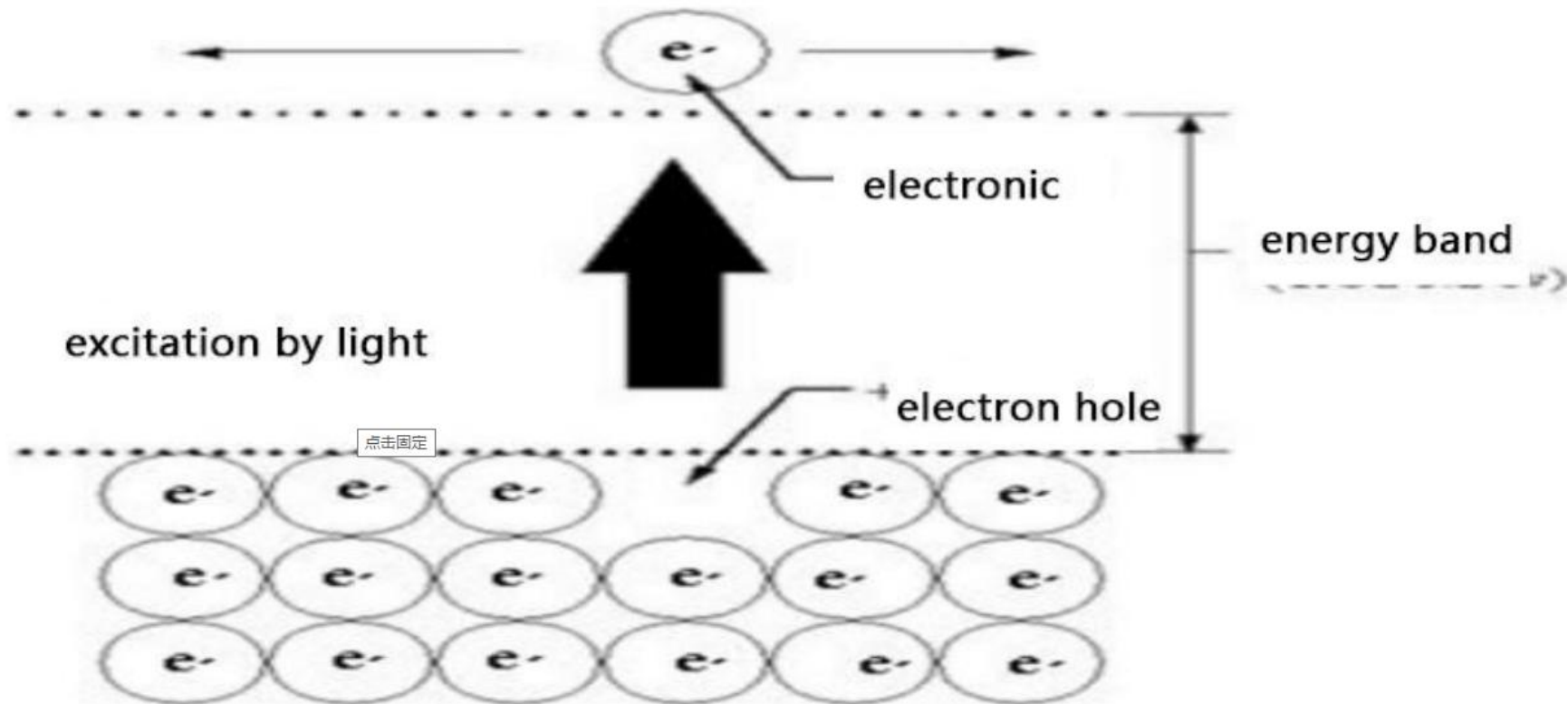
THE WORKING PRINCIPLE

Nano-titanium dioxide in the light irradiation, the valence band electrons are excited to the conduction band, the formation of electrons and holes, and adsorption on the surface of the O₂ and H₂O role, the formation of superoxide anion free radicals O₂⁻ and hydroxyl radical- OH, Its free radicals have a strong oxidative decomposition, can destroy the organic matter in the CC bond, CH bond, CN bond, CO bond, OH bond, NH bond, decomposition of organic matter for carbon dioxide and water; at the same time destroy the bacterial cell membrane curing virus protein , Thus killing bacteria, viruses.

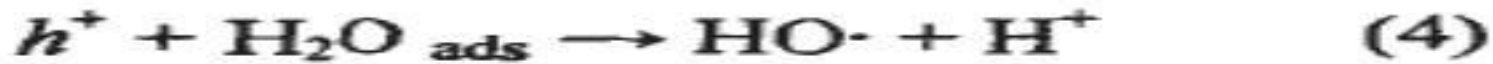


The figure of Catalytic materials and light-sensitive particles

Nano-TiO₂ photocatalytic sterilization is the first from the bacterial cell wall, the free radicals can destroy the cell wall structure, the cell wall fracture, damage, plasma membrane disintegration, and then into the cell body to destroy the inner membrane and cell components, the cytoplasm condensation Cell contents overflow, can occur cell cavitation phenomenon



TiO₂ PHOTOCATALYTIC REACTION MECHANISM

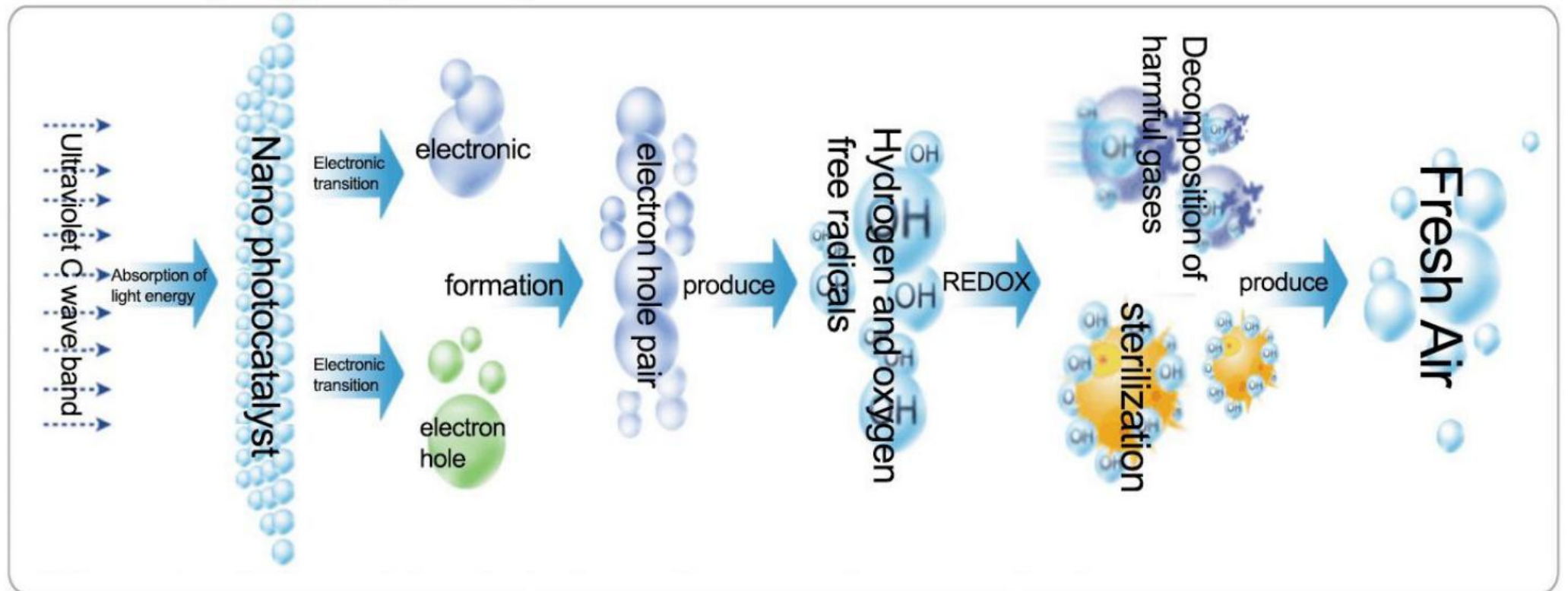


HO can react with the electron donor, oxidize it, the ore can react with the electron acceptor, and h^+ can also oxidize directly with the organic matter:



PHOTOCATALYSIS PRINCIPLE DIAGRAM

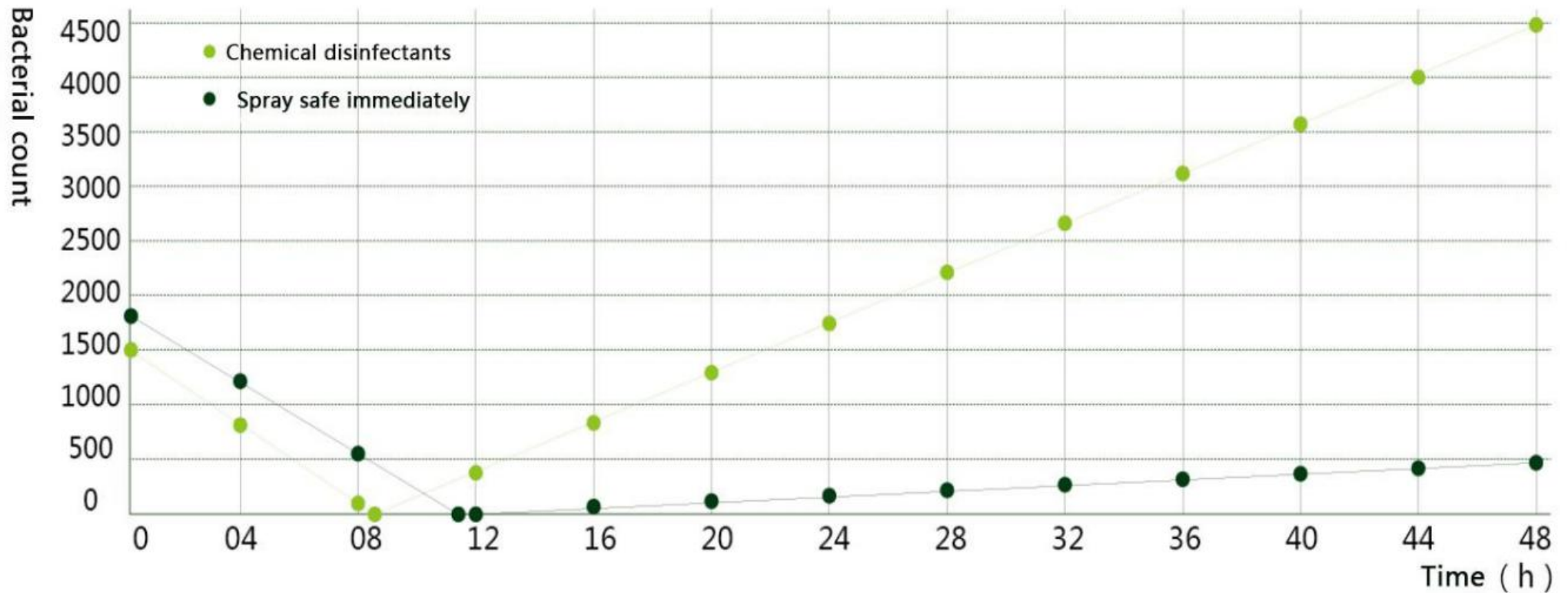
Through the specific wavelength of light irradiation, activation of nano- photocatalyst, generating electron-hole pairs, so that the photocatalyst and the surrounding H₂O molecules, O₂ molecules play a role in the formation of hydrogen peroxide OH, through the hydroxyl radical OH layer lock The air of various harmful ingredients, decomposition of harmful components of the composition, inhibition of bacterial growth and virus activity, so as to achieve sterilization, clean air, deodorant, mildew, the purpose of eliminating air pollution.



LONG ACTING

VIC-SPRAY contains a variety of beneficial bacteria ingredients, sprayed in the barn ground can quickly reproduce the bacteria, inhibit the proliferation of harmful pathogenic microorganisms, rapid decomposition of residual organic matter, so that the barn in a micro- ecological balance. long-term. Guaranteed a week low bacterial virus

Comparison of the efficacy of Spray safe immediately and other chemical disinfectants



Killing effect on pathogenic bacteria of the VIC-SPRAY

Effect time Bacteria	Test Group		Reference Group	
	30 mins <small>~~~~~</small>	2 days	30 mins <small>~~~~~</small>	2 days
escherichia coli	< 9 CFU	< 9 CFU	130 million CFU	< 210 million CFU
staphylococcus aureus	< 32 CFU	< 9 CFU	85 million CFU	< 140 million CFU
Salmonella gallinarum	< 7 CFU	0	> 100 million CFU	< 100 million CFU
Aspergillus niger	< 65 CFU	< 50 CFU	0.22 million CFU	0.65 million CFU

VIC-SPRAY KILL VIRUS EFFECT

Killing effect on Newcastle disease and avian influenza virus of the VIC-SPRAY

Groups	First		Second		Third	
	threshold value	result	threshold value	result	threshold value	result
Reference	25.19	+	29.2	+	30.3	+
group	24.79	+	22.59	+	29.53	+
Test	0	-	0	-	0	-
	0	-	0	-	0	-
	/	/	0	-	0	-
	/	/	/	/	0	-

+

APPLICATION IN PIG FARMS



1, Prevent foot-and-mouth disease

Paint the powder directly to the wounds for 3 days. Then the pig can stand up to eat (about 20 g per pig).

Spray the hoggery during the period of disease, 15 g per square metre for 3-7 days. It can not only prevent the deterioration of mild symptoms, but also prevent further infection outbreak of other pigs.

2, Prevent bacterial and viral diarrhea

If the piglets come out Unknown diarrhea in the farm unfortunately, the most effective prevention measures are:

Spray 15 g per square meter by machine for 7 days(keep the farrowing room dry and warm)

At the same time, mix the powder into a paste and feed the piglets (about 3ml for each, if severe for every 4 hours), for 3 days (clear the toxins and germs from the intestines);

The effect of the above methods to control the stubborn diarrhea of pig farm is remarkable.

3, Prevent the exudative dermatitis of piglets

When piglet come out exudative dermatitis, it is effective to spray for 3 days

4, Improve the environment effectively

lactation piglet

Sprinkle the VIC-SPRAY on the piglet's lying place (or incubator), 5 grams per square meter, once every two days, so that the wet floor can be dry, to provide a comfortable environment for the piglets. And can eliminate the ammonia inside, inhibit the propagation of bacteria, reduce the occurrence of piglet diarrhea. Is conducive to the growth and development of piglets.

This product can also be used for piglets off the tail, castration and other traumatic wound disinfection, can avoid infection, accelerate wound healing. Usually within 8 hours of wound scab.

After weaning continue to use VIC-SPRAY 7 to 10 days, Mainly scattered in the former manger. In the first two or three days, the amount of 3 to 10 g / m², after the amount can be gradually reduced.

sow's before and after breeding

In the breeding sows before and after the genitals are most susceptible to infection, in the sow lying place lying 5 grams / m² Spray , Spray every day, continuous use of 3 to 7 days, in the sow genital and breast smear can also be The Salisbury can improve the wet

environment of the sow house, inhibit the breeding of bacteria, so that sows genitals from irritation and infection.

delivery room disinfection

Piglets after birth, almost no resistance to disease, the most vulnerable to bacteria and lead to piglets sick, due to sow before bedtime bed-walk incubator and so have completely clean up disinfection, through the sow to bring disease is the most important infection channel , Cleaning and disinfection to go to bed before the sow is even more important. Some pig farms using Salisbury disinfection approach, combined with any time to clean up the sow manure and other measures to effectively reduce the risk of pre-primary piglets, that is, in the pig house sows who clean the dirt, but to the bed And then even the pig bed with a disinfection, as far as possible from the pig farm to bring pathogens. Now some pig farms still can not do sow before the cleaning and disinfection work, hoping to attract enough attention.

Application in poultry farm

Laying hens: especially for the control and treatment of laying hens and red bird mites

broiler farms: reduce foot lesions

chicken production

In the breeder breeding period, the daily disinfection of the breeding period, spraying once a week, there is no ammonia in the house of the success rate of brooding; egg yard use mainly in the egg box, every ten days sprinkle a layer of salin, reduce the eggs Pollution, the use of the control of the incidence of disease

hatching process

50 grams of each egg tray, incubation box 200 grams, can significantly reduce the egg rate. Can reduce the early infection of E. coli.

transport process

In the transport of vehicles, transporting chickens in the box of VIC-SPRAY can reduce the transport process of infection and reduce mortality.

Removal of ammonia



Before use



30 minutes after use



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