

# ProteQ™

Offering the safe, stable and rapid disinfection in a wide variety of situations.

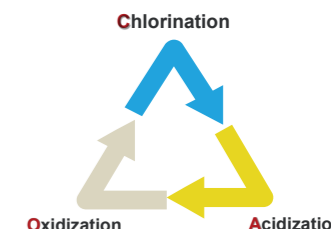


## What is ProteQ™?

ProteQ™ is a well-formulated water soluble powder, providing a safe working solution with pink color, offering the safe, stable and rapid disinfection of surfaces and equipment in a wide variety of situations.

## Why dose ProteQ™ work?

ProteQ™ has a three-pronged action mode - CAO mode of action, works fast to the pathogen, oxidizes key structures and compounds, such as proteins, leading to widespread, irreversible damage to the DNA/ RNA/ Cell wall... Subsequently, deactivate / destroy the microorganism.



## How dose ProteQ™ work?

Works as Virucidal (including Coronavirus), Bactericidal, Fungicidal ... widely used in farm biosecurity, with no evidence of resistance.

Shows fast and effective performance against wide strains of pathogens:

Foot and Mouth Disease (FMD),

Africa Swine Fever (ASF),

Avian Influenza (AI),

Salmonella,

Campylobacter ...

more than 580 pathogenic microorganisms.

Compared with other disinfectants:

Disinfectants	Bacteria			Virus		Mycoplasma	Fungi
	G <sup>+</sup>	G <sup>-</sup>	Spore	E <sup>+</sup>	E <sup>-</sup>		
Phenols	√	√	X	√	X	√	√
Quaternary ammonium com.s	√	√	X	√-	√-	/	√
Iodine	√	√	X	√	√	X	√
Aldehyde	√	√	√-	√	√	√-	√
Hypochloric acid	√	√	√+	√	√	√+	√
Hydrogen peroxide	√	√	√-	√	√-	√	√-
Peroxyacetic acid	√	√	√	√	√	√	√+
<b>ProteQ™</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>

G<sup>+</sup>: Gram-positive  
X: noneffective

G<sup>-</sup>: Gram-negative  
√-: not satisfying

Virus E<sup>+</sup>: Enveloped viruses, such as ASF, AI  
√: good performance

Virus E<sup>-</sup>: Non Enveloped Virus  
√+: better performance

## How long does ProteQ™ solution work?

As a balanced, stabilized blend of peroxygen compounds, surfactant, organic acids, and inorganic buffer. ProteQ™ dissolves easily in water, making a stable solution. Almost none impacts from temperature, water quality, pH value and organics. A SGS lab test report verified the stable function of Cl<sup>-</sup> keeps no change during 14days.

## Is ProteQ™ safe?

ProteQ™ has a low oral and dermal toxicity, no toxic vapor phase and does not evolve chlorine when prepared, stored and used as directed. It can be used as a disinfection of drinking water directly. Safe for both animal and human use.

Dilution Rates	Mortality
1:50	0/10
1:100	0/10
1:200	0/10
1:300	0/10
Negative control	0/10

Safety Trial of ProteQ™ for Adult Mouse (Administrated Orally for One Week)

## How to use ProteQ™?

### For animal farms:

Routine disinfection: ProteQ™: tap water —1:200.

Epidemic period disinfection: ProteQ™: tap water —1:100.

#### 1.Surface & vehicle disinfection:

Using a pressure washer or other mechanical sprayer, apply ProteQ™ solution at an application rate of 300ml/m<sup>2</sup>.

#### 2.Equipments:

Using a brush or pressure washer, wash all equipment in ProteQ™ solution until visibly clean.

#### 3.Working clothes:

Soak the cloths in in ProteQ™ solution for more than 15mins.

#### 4.Disinfectant foot-dips preparation and use.

Replace solution once it has either become soiled or after a period of 4-5 days.

### For drinking water disinfectant:

ProteQ™ : water - 1:1000.

### For disinfectant in presence of animal:

ProteQ™ : water - 1:200.

### For egg shell disinfectant:

Spray - ProteQ™: water - 1:100 , 30ml/m<sup>3</sup>.

Mist spray - ProteQ™: water - 1:25 for 1 hour.

\*Due to the liquid absorption will cause a shorter shelf life, so mist spray with a special mist-sprayer is recommended.

### For slaughter house:

1.Use a solution of ProteQ™: tap water —1:200.

2.For the disinfection of containers, equipment, tools, and all kinds of surface including the hands of the workers, by dipping, spraying or mist-spraying at an application rate of 300ml/m<sup>2</sup> for more than 30seconds.

3.Use a solution of ProteQ™: tap water —1:400 to soak all kinds of working cloths and cleaning cloth for more than 15mins.

### Remark:

1.The pink color is to distinguish the disinfectant solution and other liquids, no harm to human or fibers.

2.Water hardness has no obvious effect on disinfection result, but it will lead the pink color disappear sooner than in soft water.

3.Please DO NOT mix ProteQ™ with alkaline substances, esp. caustic soda.

4.Please add ProteQ™ to water, but NOT water to ProteQ™.

5.ProteQ™ is safe to car surface, except the situation of scratch.

