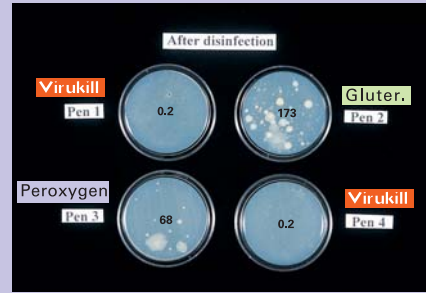


✓ **Virukill** is effective against all pathogens causing diseases in Poultry.

✓ **Virukill** is over 100% more effective in washing and disinfecting surfaces than the best disinfectant currently marketed in the world (Glutaraldehydes, Peroxygen acids, QAC's, Phenols etc...).

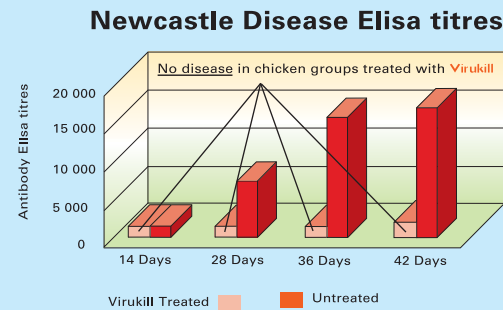


After disinfection, both Virukill treatments were more than 70 times better!

✓ **Virukill** is extremely potent to disease causing organisms and yet it is so gentle to animals that it can be sprayed directly onto chickens without causing any harm or side effects...this includes day-old chicks!!!

✓ **Virukill** can be continuously dosed in the animals drinking water without causing any harm to the animal...yet it will eliminate all harmful pathogens in the drinking water.

✓ By constantly dosing Virukill in the animals drinking water, a catastrophic disease outbreak of Newcastle disease was prevented in the chicken group drinking water treated with **Virukill**.



**Constant dosing of drinking water:**

Drinking water can either introduce disease agents into the animals quarters or it can help spread disease agents inside the animals quarters. Make sure your animals drinking water is constantly treated with **Virukill** at a 1:10000 dilution ratio (10 millilitres **Virukill** in 100 litres water).

**Virukill** can either be constantly dosed into the water systems using a proportional dosing pump, or it can be added proportionately to a header tank each time it is filled up.

In between each production cycle, the water system (or drinking troughs) should be rinsed out with a 1:500 **Virukill** dilution ratio (200 millilitres **Virukill** in 100 litres water). Allow the **Virukill** dilution to fill up the drinking system (or drinking troughs). Leave for 1 hours, and then allow the solution to drain out through the drinker lines (or pour out of drinking troughs). Then, flush the whole system with the normal constant dosing of 1:10000 **Virukill** dilution ratio (10 millilitres **Virukill** in 100 litres water).

**Washing animal quarters and equipment:**

Washing animal quarters can only begin after complete removal of all organic soiling, litter, faeces, residual feed, dust, loose debris, and removable equipment from the animal quarters.

Proper washing of all surfaces with **Virukill** at a 1:500 dilution ratio (200 millilitres **Virukill** per 100 litres water), is essential to achieve the best results from the subsequent disinfection.

At a low pressure, apply the above 1:500 **Virukill** dilution at a rate of 1 litre per square metre of surface area. Ensure coverage of all air inlets, fan boxes, partitions, feeders and drinkers. Allow the dilution to soak for 60 minutes.

With water, flush out all the surfaces with a high pressure washer (6-8 bar). This water should be dosed with a **Virukill** 1:10000 dilution ratio (10 millilitres **Virukill** in 100 litres water) for best effect...you can use the drinking water that is constantly dosed with **Virukill** for this purpose.

For movable equipment, use a soak tank to wash for best effect.

**Disinfecting surfaces:**

After washing, apply at a low pressure, a 1:100 **Virukill** dilution ratio (1 litre **Virukill** per 100 litres water) at a rate of 300 millilitres per square metre of surface area. Apply first to the roof, then work your way down the walls to the floors. Try and keep the solution on the surfaces wet for as long as possible (at least 30 minutes).

For disinfection of surfaces in all other animal quarters (except poultry), use a 1:50 **Virukill** dilution ratio (2 litres **Virukill** per 100 litres water).

Disinfection must be done 24 hours before animal re-stocking. On completion of disinfection, close all doors and place foot dips at entrances.

**Pre-entry fog:**

Fogging (cold or thermal) with **Virukill** in order to disinfect inaccessible areas in the animals quarters before re-stocking, is highly recommend and effective.

For Cold fogging: Prepare a 1:33 **Virukill** dilution ratio (3 litres **Virukill** per 100 litres water). Apply this solution at a rate of 12 litres per 1000 cubic metres.

For Thermal fogging: Use 3 litres **Virukill** per 1000 cubic metre. Dilute the 3 litres of **Virukill** in 2-4 litres of water and add a standard approved dispersal fog agent designed to retard evaporation.

**Continuous protection:**

Fogging or Spraying with **Virukill** can help prevent, reduce and retard the spread of disease outbreaks.

For all animal quarters: For aerial disinfection of the atmosphere with a mist or fog, use a cold fogger, or an existing plumbed-in fogging system, or a spray machine delivering a fine mist. Apply a 1:200 **Virukill** dilution ratio (0,5 litres **Virukill** per 100 litres water) at a rate of 2-4 litres per 100 square metres. Apply 1-4 times a day depending on the pathogen load, disease risk and the weather.

For broiler chickens: Spray with a cold-fogger using a 1:100 **Virukill** dilution ratio (1 litre **Virukill** per 100 litres water), at a rate of 2-4 litres per 100 square metres. Start with day-old chicks. The longer you keep the fog airborne around the chicken, the better. Apply 1-2 times a day depending on the pathogen load, disease risk and the weather.

For layer chickens: Spraying should preferably be done with a spraying machine, but a cold fogger can also be used. Use a 1:100 **Virukill** dilution ratio (1 litre **Virukill** per 100 litres water). If spraying, apply the solution at a rate of 10 millilitre per layer. If using a fogger, apply the solution at a rate of 1 millilitre per layer. In cold weather, reduce the spray volume by half (no reduction if fogging). Apply once a day, 3 - 5 times a week. Increase to twice a day in periods of disease risk.

**Bio-security:**

Foot-dips: Use a 1:25 **Virukill** dilution ratio (4 litres **Virukill** per 100 litres water), and replenish every 2-3 days. Replace when it start to look dirty.

Vehicle spray: Use a 1:100 **Virukill** dilution ratio (1 litre **Virukill** per 100 litres water).

**Virukill**<sup>TM</sup>  
A BREAKTHROUGH IN ANIMAL DISEASE CONTROL

