

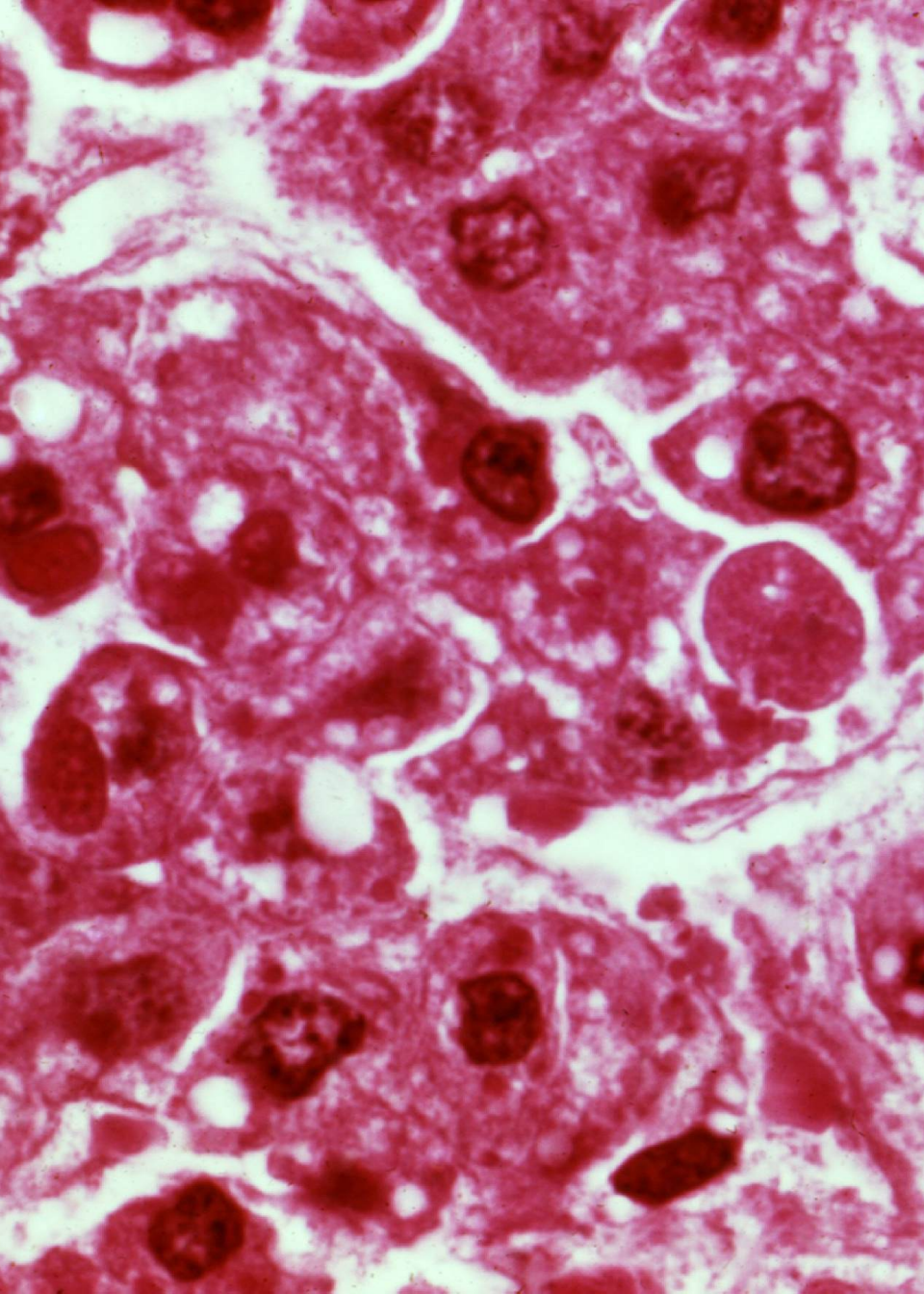


# ViolpluS<sup>®</sup>

*The Ultimate Surface Disinfectant*

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TECHNICAL PRESENTATION



# What is VirolpluS

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A Virucidal, Bactericidal and Fungicidal Disinfectant

Completely kills all known classes of Virus, including SARS

An oxygen based formulation that acts on the physical destruction of the pathogen – 100% effective

In the form of Dry Powder, and hence easy to transport and use

Highly Biodegradable – safe for the environment



# Why was Virolplus developed

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- Emergence of new virulent pathogens
- Increase in Viral and Bacterial disease risks
- High Risk of loss due to infection / disease
- Existing disinfectants:
  - Lack spectrum of efficacy, and are based on age old formulations
  - Are unsafe, in many instances
  - Not friendly for the user or the environment





# Mechanism of action

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- ❑ Dry biocidal composition which dissolves in water to form Hypochlorite ions under controlled acid conditions
- ❑ Disinfectant biosystem results from a synergy between
  - ❑ Biocidal hypochlorite ions
  - ❑ A powerful oxidising agent
  - ❑ Sulfamic acid
- ❑ The disinfectant solution has a stabilised pH of 2.1 which
  - ❑ Maintain chlorine in molecular form, making it available for biocidal action
  - ❑ Creates the acid conditions required to destroy viral capsids

# Mechanism of action.... contd

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## The regeneration action

VirolpluS is the only disinfectant that has the ability to repeatedly regenerate active chlorine for sustained biocidal action

This "regeneration effect" results when the chlorine formed as a by-product of chlorine's biocidal action is oxidised back to its original form. This continually creates new molecular chlorine available to attack micro-organisms, until all the oxidising agent (Potassium peroxymonopersulphate) has been exhausted.

# Mechanism of action

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- The key to VirolpluS' Speed of action, Potency and Efficacy spectrum is it's unique chemistry capable of
  - Instant biocidal action
  - Regenerating biocidal molecular chlorine
  - Penetrating Organic Matter

NB: A stabilising chemical system prevents the release of any toxic chlorine gas

# Unparalleled Performance

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Kills All viruses, bacteria and fungi

Rapid speed of action – kills in 10 minutes of contact

Performs on all surfaces and in harsh conditions like heavy soiling, organic challenge.

Hard water can be used for dilution as well. Tepid water will suffice

Acts in low temperatures as well

Exceptional performance against food poisoning organisms as well at normal dilution rates



# User Confidence

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- Can be used confidently in all animal farm environments
- Non-tainting / zero residue, biodegradable
- Easy storage, transportation and usage
  - Compact powder with 3 years shelf life
  - Solution stable for 7 days after preparation
- 100% soluble in tepid water
- 1% dilution rate is optimal for most uses
- A balanced stable formula with potent synergistic action



# Violplus - Summary

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- Innovative Chemistry – Molecular chlorine instantly available through oxidising system
- Acts fast, Broad Spectrum of efficacy, Kills all Bacteria, Virus and Fungi
- Effective on all surfaces. Can be used as an aerial spray as well.
- Easy to transport – Powder form
- Easy to use
- Safe for user and safe for environment – Highly Biodegradable



For enquires, reach us at

[contact@indusahealthcare.com](mailto:contact@indusahealthcare.com)

[www.indusahealthcare.com](http://www.indusahealthcare.com)