



# Vibrex and Live Poultry

Control viral and bacterial problems in one application with VIBREX AGRICARE



Vibrex

## Antimicrobial Intervention System Poultry Growing & Breeding Egg Industry

For many years, intensive growing facilities have been searching for an effective and versatile biocide that rapidly destroys all types of microorganisms and provides maximum employee and environmental safety. Biosecurity has become an integral component in the management of all intensive growing facilities to ensure improvements in mortality rates and health of animals.

Vibrex is a broad-spectrum biocide that can safely be used around live animals for the control of airborne, waterborne and hard surface microorganisms. This flexible and versatile product has many applications ranging from the fogging of poultry sheds for the control of airborne pathogens to reducing biofilms and waterborne pathogens in animal drinking water.

Vibrex is a colourless, odourless liquid, non-toxic, non-corrosive and non-flammable. It is a wide spectrum bactericide, fungicide, viricide and algacide, to be used as a disinfectant in many applications involving food chain products.

### How does it work?

No other commercial biocide exists which is a "molecular free radical". Chlorine dioxide has an odd number of electrons and desperately seeks reactants that are electron donors. As a result, Vibrex works via oxidation and not chlorination. This means that Vibrex does not produce chlorinated compounds and has limited reactions with organics, improving the effectiveness of the biocide in the presence of organic matter.

The reactive mechanism of Vibrex means that organisms cannot develop a resistance to the active ingredient.

This, together with the non-formation of carcinogenic chlorination by-products and non build-up of toxic organic or inorganic by-products like quaternary ammonium compounds, provides a safe and effective biocide that may be used around live animals destined for human consumption.

### Application Areas

To be utilised in the treatment of sheds, coups, hatcheries and all hard surface areas to act as a total surface disinfectant. The destruction of surface microflora will aid in the prevention and spread of communicable disease. Consistent treatment of animal drinking water will aid in the prevention and spread of water borne viruses, bacteria and protozoa. Water treatment may be extended to cooling waters for the control of biofilms and Legionella bacteria.

Consistent treatment of facilities via fogging will impede the spread of air-borne pathogens and infection whilst remaining harmless to live stock. Treatment via the atmosphere is utilized as a vehicle to act as a "respiratory tract infection inhibitor" and improve the biosecurity of facilities whilst animals are present. Treatment of fresh eggs with Vibrex will aid in suppression of surface contamination and reduction in E.coli count.

### Exotic Diseases

Exotic avian diseases lead to epidemics, high mortality rates and devastating costs to the poultry industry.

Vibrex is capable of inactivating lipid-enveloped viruses such as Avian Influenza. Furthermore, Australian research by RRIDC has demonstrated chlorine dioxides ability to inactivate the non-enveloped viruses of Newcastle disease and Infectious bursal disease. Vibrex is capable of destroying a broad spectrum of microorganisms including bacteria, fungi, viruses and protozoa. It is able to destroy both bacterial and fungal spores.



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# Vibrex Antimicrobial Intervention Program

The Key to Product Safety and Quality



Vibrex

## Sanitation and Disinfection

- Hard surface sanitation of equipment and facilities
- Disinfection of facilities
- Control of airborne pathogens and inoculum



**Vibrex is the ideal solution that can be applied into all facets of the Antimicrobial Intervention Program due to its flexibility and versatility.**

## Water Treatment

- Disinfection of incoming and makeup waters
- Sanitation and disinfection of recycled waters
- Removal and control of biofilms in water distribution systems
- Disinfection of wastewater

## Product Decontamination

- Reduce microbial loadings on surface of product or produce
- Addition to ice in contact with produce
- Improve shelf life and freshness of product
- Reduce risk from presence of human pathogens

## Odour Control

- Capable of reducing many offensive odours
- Eliminate odours by controlling microbial source

## Benefits of Vibrex

- Broad spectrum biocide, effective against all bacteria, fungi, virus, algae and protozoa.
- Effective against spore forming microorganisms
- Effectively controls and removes biofilms
- Low concentration and contact times required
- Classified as a non-rinse food grade sanitiser
- Works over a broad pH range
- Does not form chlorinated by products including THMs
- Minimal effect on biocidal efficacy due to organic loadings
- Easily applied by fogging, spraying, dosing through existing CIP systems
- Non dangerous goods classification
- Biodegradable and safe to the environment
- Negligible corrosivity at recommended rates
- Micro-organisms unable to develop a resistance to the chemical
- Effective against human pathogens including Listeria, Salmonella and E.coli



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