## **POULTRY PRODUCTION CYCLE**

Reduced contamination level and improved production performance and profitability

The only way to address and eliminate biofilm risks is to strip the biofilm, prevent its re-growth and kill the microbial contamination



### Benefits Cutrion® "golden" Chlorine Dioxide:

- Improves performance of birds!
- Very fast and long active in waterlines compare to other sanitizers
- Does not have pH limitation and is not corrosive for equipment
- Final elimination of (waterborne) pathogens in poultry barns
- Effective & fast sanitation program with spraying & fogging
- High efficacy against E.coli, Salmonella, Listeria, Aspergillus, Penicillium, Staphylococcus
- Easy to apply, easy to monitor and very safe
- Very cost effective compare to all other disinfectants
- NO INVESTMENT COSTS TO START; use regular dosing pump

### Advantages Cutnion® on poultry farms

#### **BROILER SHEDS**





Proven Return on Investment (R.O.I.)
Improves FCR (feed conversion rate)
Better growth potential
Low investment per bird (0.005 – 0.01 \$)
Improves uniformity of flock
Lower mortality rate

Condemned % declines Less chance health problems occur Approved for poultry drinking water

EASY TO APPLY PER SHED OR ON WHOLE FARM

UNIQUE WATER SANITATION PROGRAM

### LAYER & BREEDER HOUSES





Proven return on Investment (R.O.I) Lower mortality rate Better egg shell quality

Less feed costs

Longer egg production cycle

Extra water intake

Clean lines for adding water soluble feed additives

Always pure water till the far end

Long lasting activity with high/low water flow

EXTREME EASY TO APPLY IN EACH BARN

THINK OF HATCHERY ADVANTAGES TOO

### PRACTICAL EXAMPLE: 45,000 broilers per flock @ \$ 0.01 investment costs per bird with DUTRION

	BEFORE (Peroxide)	FLOCK 1 (DUTRION®)	FLOCK2 (DUTRION®)
FCR	1.81	1.74	1.71
Mortality %	3.92	2.54	2.99
Condemned %	0.85	0.24	0.50
Growth/ day in grams	59.46	59.16	63.33

**dutrion**<sup>®</sup>; low investment, high return

**dutrion**® available in unique tablets





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### PATHOGEN REDUCTION AT SLAUGHTER

### Benefits **Jutnion**® **Chlorine Dioxide!**

# CLO2 Germicidal Spectrum Bacteria

Pseudomonas Aeroginosa Campylobacter Jejuni Pseudomona Specie Flavobacterium Species Enterobarcer Cloaceae Yersinia Enterolitica Enterobarcter Hafnia Clostridium Sporogenus Proteus Vulgaris Clostridium Dificile Klebsiella Pneumoniae **Clostridium Perfingens** Salmonella Typhi Fusobacterium Nucleatum Salmonella Enteritidis **Bacilus Subtilis** Salmonella Gallinarum **Bacilus Circulans** Salmonella Typhimorium **Bacilus Megatarium** Salmonella Choleraesuis **Bacilus Cereus** Salmonella Typhosa Bifedibacter Liberium Corynebacterium Nucleatum Staphylococcus Aureus Sarcinae Lutae Staphylococcus epidermia Streptococcus Pyrogenes Streptococcus Faecalis Strep 1, 2, 3. Mycobacteroi Bovis Mycobacterium Smegmatis Mycobacterium kansaaii

- Removal of biofilm which hinders efficiency of equipment
- Longer life of equipment, less down time
- Consumer confidence and acceptability
- Disinfection (sterilization) capabilities are not diminished at all in the presence of fats, oils, proteins, body fluids etc. because it has very selective and very few chemical reactions
- Strongly soluble in water, therefore, it has a long-lasting residual which reduces the potential for cross infection or re-contamination
- Broad spectrum, fast acting disinfectant, effective against a wide range of bacteria, spores, fungi, and viruses at relatively low concentration and short contact periods
- It is colorless, has a mild medicinal odor and removes if any odor, low corrosively to metals and the lowest acute toxicity rating from EPA
- High efficacy against E.coli, Salmonella, Listeria, Aspergillus, Penicillium, Staphylococcus etc
- High efficacy is obtained irrespective of pH
- Non-corrosive and non-staining of equipment
- Easy to apply and to monitor
- Meets HACCP (food safety) management requirements
- Cost Effective in many applications

### **CLO2** Germicidal Spectrum

#### Fungi Candida Albicans

Trichophyton Rubrum
Scopulariosis Species
Aspergillus Niger
Trichophyton Mentagrophytes
Aspergillus Flavus
Mucor Species
Fusarium Specie
Saahromyces Cerevisiae
Fonsecaea Pedrosoi

#### Virus

Herpes Virus I
Poliovirus
Herpes Virus II
Encephalomyocerditis (EMS)
Adenovirus Echovirus
Vaccina Virus
Coxsakievirus
Vesicular Stomatitis Virus (VSV)
Influenza
Para Influenza
Feline Parvovirus
Bluetongue Virus
Mouse Flu
Mouse Hepatitis Virus (MHV)
Minute Virus of Mice (MVM)

Minute Virus of Mice (MVM)
Mouse Encephalomyelitis Virus
New Castle Disease Virus
Mouse Polio Virus (MEV)
Iridovirus
Pertiviries – Togaviridae

### **Others**

Vidrio Cholerae Culex Quinquifasiatus Mycoplasm





The chlorine dioxide process is "extraordinarily" better than other chemical methods of eliminating pathogens.



**Powerful Water Treatment**