



## SWINE PRODUCTION

**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



### **CLO2 Germicidal Spectrum**

#### **Bacteria**

Pseudomonas Aeruginosa  
 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

### **Benefits *dutrion*® Chlorine Dioxide tablets:**

- Improves performance of animals!
- 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 hog barns
- Effective & fast sanitation program with spraying & fogging
- High efficacy against E.coli, Salmonella, Listeria, Aspergillus, Penicillium, Staphylococcus, Clostridium, etc
- Easy to apply, easy to monitor and very safe to use
- Very cost effective compare to all other disinfectants
- **HARDLY NO INVESTMENT COSTS**

### **ADVANTAGES *dutrion*® TABLETS**

#### **SWINE production**

Clean water and clean water lines  
 Immediate Return on Investment (R.O.I.)  
 Improves FCR (feed conversion rate)  
 Stronger growth potential of swine herd  
 Low direct investment per animal  
 Improves uniformity of groups  
 Decrease mortality rate and improve slaughter quality  
 Destroys all hidden disease germs in water lines  
 Water quality is not affecting management goals  
 Approved for animal- and human drinking water

**EASY TO APPLY ON ALL KIND OF SWINE OPERATIONS**

**WE OFFER UNIQUE 4-step DOSING CONCEPT**



### **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)  
 Mouse Encephalomyelitis Virus  
 New Castle Disease Virus  
 Mouse Polio Virus (MEV)  
 Iridovirus  
 Pertiviries – Togaviridae

#### **Others**

Vidrio Cholerae  
 Culex Quinquifasiatus

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## TEST RESULTS (Canada, 2008)

CLO2 Test Versus Iodine on Weaner Pigs							
DUTRION 0.2%							
Room	Starting Date	Nr of pigs	Starting Weights	Ending Weights	Mortality	Gain per Day	Feed Conversion
A	14-11-2008	1729	6.80	29.00	2.32	472	1.44
B	17-11-2008	2084	6.99	27.94	3.16	419	1.47
C	28-11-2008	2047	6.99	30.37	2.15	477	1.30
D	28-11-2008	1664	6.74	30.26	2.69	470	1.52
		<b>Average</b>	<b>6.88</b>	<b>29.39</b>	<b>2.58</b>	<b>460</b>	<b>1.43</b>
		Total	7524				
Advantages of Dutrion			<b>3.87%</b>	<b>-8.75%</b>	<b>2.68%</b>	<b>-0.87%</b>	
IODINE							
Room	Starting Date	Nr of pigs	Starting Weights	Ending Weights	Mortality	Gain per Day	Feed Conversion
1	9-12-2008	1906	6.95	27.31	2.31	424	1.54
2	1-12-2008	2275	6.85	28.27	3.23	437	1.5
3	23-12-2008	2087	6.73	29.21	3.02	478	1.31
4	23-12-2008	2161	6.71	28.4	2.75	452	1.43
		<b>Average</b>	<b>6.81</b>	<b>28.3</b>	<b>2.83</b>	<b>448</b>	<b>1.45</b>
		Total	8429				

Financial benefits from this tests: - 1 kg extra weight : 1.75 weight x \$ 1.45 /kg = \$ 2.45 / weaner pig  
 - with 1 kg extra feed : 1 kg feed x \$ 0.50 /kg = \$ 0.50 / weaner pig  
 =====  
**8429 pigs x \$ 1.95 / weaner pig**

**DutriClean**  
dosing solutions



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**dutrion® TABLETS**



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