



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
Average			6.88	29.39	2.58	460	1.43
Total		7524					
Advantages of Dutrion			3.87%	-8.75%	2.68%	-0.87%	
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
Average			6.81	28.3	2.83	448	1.45
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
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8429 pigs x \$ 1.95 / weaner pig

DutriClean
dosing solutions



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dutrion® TABLETS



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