

IODOX-A- WATER DISINFECTANT

(EXPORT DIVISION)

POULTRY AND LIVESTOCK DRINKING WATER DISINFECTANTS SANITIZERS

Farm animal drinking water disinfectants germicides sanitizers for the control of bacteria, disease, germs, viruses, pathogens, fungi, spores. For use in avian, beef, birds, dairy, chickens, chicks, broilers layers, laying hens, poultry, sheep, swine, sows, piglets, in the control of bacteria, fungi, broiler, calf rearing, hatcheries, piggeries, stables, aviaries.

Iodox-A is a safe and effective disinfectant which is added to beef, dairy cows, poultry chickens, chicks, sheep, swine sow and piglets drinking water to prevent the spread of pathogenic bacteria (disease causing organisms) and cross contamination in and through the animals drinking water.

Iodox-A is an organic biocidal disinfectant. Biocidal meaning it kills inactivates all types of organisms in a non selective manner, viruses, bacteria, fungi and even spores. A disinfectant does not necessarily do this, for most disinfectants are selective in what they kill. It is even effective against polio virus, TB and many other antibiotic-resistant organisms which have resulted from the extensive use and over use of antibiotics. There are only a few extremely corrosive and toxic disinfectants that are effective against fungi spores, however they must be used at very high dosage levels making them uneconomical and/or dangerous to use.

Iodox-A is harmless to poultry and livestock and is formulated with a food grade iodine trace mineral that plays an important role in promoting growth and development and helps in the burning of excess fat. In animals iodine deficiency can result in lowered metabolism, abortions, anemia, retarded growth etc. There have been no reported cases of toxicity resulting from too much iodine, which occurs naturally in soil, food and water.

Ingredients: A concentrated liquid solution of selected organic plant extracts of natural origin, citric acid combined with nutritional food grade iodine salts for maximizing free iodine I₂ availability using a patent pending process. It should be understood that only the free iodine portion of any iodine (iodophor) product is biocidal. Titratable levels of iodine in no way indicate the efficacy of a specific products ability to kill bacteria (microorganisms) (Please read **Iodox-A** tests below).

BEEF AND DAIRY COWS, CALVES, CAMELS AND SHEEP WATER DISINFECTION THE NATURAL DIETARY APPROACH TO WATER DISINFECTION

Iodox-A can increase water consumption significantly, in poor quality high bacteria count and putrid (high sulfur-rotten egg) smelling drinking water. With regular use of **Iodox-A** at a rate of 1 to 30,000 parts drinking water it will help to reduce the incidence of mastitis and prevent food rot in beef and dairy cows. It should also be noted that the average dairy cow requires more than 4 liters of water for every liter of milk produced.



*** IMPROVE WATER QUALITY * INCREASE WATER CONSUMPTION *
* INCREASE PERFORMANCE * LOWER DISEASE INCIDENCE ***

Iodox-A has the ability to effectively disinfect livestock drinking water and contains organic ingredients of natural origin, that act much like a water flavoring and odor control agent that is very appealing to animals, which increases water consumption.

This is a very important point for producers considering that the animals total body weight is compromised of as much as 60% moisture (WATER).

GENERAL PUBLISHED INFORMATION

Iodine: Is a trace mineral that plays an important role in promoting growth and development and helps in the burning of excess fat. Iodine deficiency can result in lowered metabolism, abortions, anemia, retarded growth etc. There have been no reported cases of toxicity resulting from too much iodine, which occurs naturally in soil, food and water.



POULTRY BROILERS LAYERS DUCKS TURKEY DRINKING WATER DISINFECTANT

POULTRY BROILERS AND LAYERS : USE 1 PART **IODOX-A TO 30,000** PARTS WATER REGULAR SOLUTION.

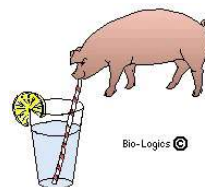
EMERGENCY SITUATIONS : USE 1 PART **IODOX-A TO 10,000** FOR 2 TO 4 DAYS OR UNTIL CONTROL IS ACHIEVED.

IODINE DEFICIENCY IN POULTRY BROILERS LAYERS DUCKS LAYERS

In birds, iodine deficiency usually results in a condition known as goiter. Poultry feed conversion efficiency can drop by as much as 34% coupled with quality downgrading. The fat level drip loss increases and the producers overall production costs can result in very marginal profits and even major losses. Layers that suffer from iodine deficiency produce weak egg shells and high mortality in chicks shell death.

SWINE SOWS PIGLETS DRINKING WATER DISINFECTANT

Iodox-A is effective in disinfecting actinomycosis, arthritis aspergillosis, E.coli, mastitis, swine erysipelas, swine influenza, virus pneumonia, ringworm, salmonellosis, respiratory disease. It has also been reported that drinking water treated with **Iodox-A** reduces the incidence of pigs tail biting.



IMPROVE WATER QUALITY*INCREASE WATER CONSUMPTION
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Iodox-A can increase water consumption in poor quality high bacteria count drinking water by as much as 30%. Swine Sows, piglets, pre-starters, starters, growers and finishers can all benefit with the use of **Iodox-A** during all stages of production.

USE RATES:

When injection pumps or medicator units are used, they should be adjusted to provide a minimum of 1 part **Iodox-A** to 30,000 parts water of the animals drinking water.

(CONTACT YOUR LOCAL DISTRIBUTOR FOR PROPER DOSAGE RATES FOR YOUR LOCAL WATER CONDITIONS).

EXAMPLE EFFICACY IODOX-A
IODOX-A REF: BACTERICIDAL EFFICIENCY

The anti-bacterial activity of Iodox-A on the two test organisms Escherichia coli and Micrococcus pyogenes, var aureus, was determined by the use of the Chambers modification of the Weber-Black test. 24,25.

Procedure: Dilutions of Iodox-A containing 1.0, 5.0 and 10.0 ppm available iodine, respectively, were added to cultures of the two test organisms, respectively. An acid pH was maintained with phosphoric acid. **After 15, 30, and 60 seconds**, respectively, the available iodine was neutralized with sodium thiosulphate. The organisms were then plated and incubated at 35 C for 48 hours. The precautions and controls described in the above mentioned methods were followed.

RESULTS:

The results obtained are shown below. At a concentration of 1.0 ppm available iodine, **Iodox-A** produced a 99.999% + kill of the test organisms, E. coli and M pyogenes, Var. aureus, in 60 and 30 seconds, respectively.

PLATE COUNT OF SURVIVING ORGANISMS PER MILLILITER
IODOX-A TEST SOLUTION

Escherichia Coli (E. coli) (ATCC-11229)
Initial Count = 75,000,000 /ml

Exposure Time->		15 sec	30 sec	60 sec
Available				
ppm iodine	pH	Plate Counts/ ml->		
1.0	5.80	12,800	7,900	0
5.0	3.95	0	0	0
10.0	3.30	0	0	0

Micrococcus pyogenes, var aureus (FDA-209 - ATCC-6538)*
Initial Count = 44,000,000 /ml

1.0	5.80	1,600	20	10
5.0	3.95	0	0	0
10.0	3.30	0	0	0

The phenol resistance of this organism meets the requirements established by the A.O.A.C. 26.

Contact your local distributor for availability in your specific area

Packaging: 10, 20 and 210 liter plastic resealable pails and drums

Storage: Store in a cool dry area. Stability: Up to 2 years from date of manufacture.

THE FOLLOWING IS A PARTIAL LIST OF ORGANISMS AGAINST WHICH IODOX-A IS KNOWN TO BE EFFECTIVE

Actinobacillus equuli	Pasturella pseudo tuberculosis
Aspergillus	Pseudomonas aeruginosa
E.coli	Pseudomonas pycyanea
Bacteroides necrophorus	Salmonella cholera-suis
Brucella abortus	Salmonella Typhi Murium
Candida albicans	Shigella sonnei
Clostridium tetani	Staph. Aureus
Coronaviridae	Strep. Pyogenes
Corynebacterium Ovis	Strep. Agalactae
Corynebacterium pyogenes	Staphylococcus aureus
Herpetoviridae	Streptococcus porcinus Arterivirus
Herpetoviridae	Togaviridae (Rubivirus, Equine Arthritis)
Orthomyxoviridae	Tubercle bacillus

Listeria monocytogenes
Microsporium gypseum

Tricholphyton rubrum

**USE SOLUTION CHART
(IODOX-A)**

Minimum Titratable Iodine	IODOX-A/ULTRADYNE-C Concentrate with	Water in Liters
100 ppm Solution	3 ml. with	500 ml.
50 ppm Solution	3 ml. with	1 Liter
25 ppm Solution	3 ml. with	2 Liters
12 ½ ppm Solution	3 ml. with	4 Liters
6 ppm Solution	3 ml. with	8 Liters
3 ppm Solution	3 ml. with	16 Liters
1 ½ ppm Solution	3 ml. with	32 Liters