

OmniLyte

CENTRAL



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WATER PURIFICATION: TURKEY

Control & Reduction of Disease

Better Digestion & Feed Conversion Ratios

Increasing Live Stock yields



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INCREASED PROFITABILITY



INCREASED SAFETY



ELIMINATE ANTIBIOTIC USE



ELIMINATE TOXIC CHEMICAL USE

AN EXCELLENT SOLUTION

STERILIZATION ■ WATER PURIFICATION ■ DISINFECTION

We are committed to providing modern chemical free and antibiotic free solutions for Disinfection, Hygiene, Water Treatment, Commercial Alkaline Ionized Water with Innovative ecological technologies targeting the Turkey farming market.

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ENVIROMENTALLY FRIENDLY CLEAN WATER

Our Envirolyte system uses a state of the art patented Membrane Electrolysis Technology
Envirolyte Generator that produces powerful disinfection agents on-site without risks to humans or animals, using just SALT, WATER & ELECTRICITY!

1. All Natural
2. Bio-Degradable
3. 100% Totally-Green
4. Environmentally-Friendly
5. Non-Toxic
6. Organic
7. Electrically Activated Simply From Salt, Electricity, & Water

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ANOLYTE

Anolyte is the most effective *Non-Chemical disinfectant* available and is used to address all types of bacteria, viruses, fungi, spores, and toxic microbial organisms.

Most significantly, micro-organisms cannot build a resistance against it!

Anolyte is up to 300 times more effective than bleach and can be used to replace your existing systems.

The active ingredient, Hypochlorous acid (HOCl), cannot be produced through conventional chemical reactions.



EPA, FDA, & USDA APPROVED

EPA, FDA, and USDA approved, we have found that the use of EnvirolYTE Electrolyzed Water ECA technology will convincingly improve the bottom line increasing **Profitability, Serenity, Safety, & Less Antibiotics** in each and every livestock application with rapid system payback, even if the customer testifies he has good water.



WHAT DOES IT DO?

Envirolyte Electrolyzed Water (EW, EDW, or EO, also known as electrolyzed oxidizing water or ionized water solution) technology is the process of passing ordinary water or diluted saline solution through a specially designed electrolytic cell in order to modify its functional properties without adding reagents. Envirolyte solutions (Anolyte and Catholyte) have the demonstrated ability to:

DESTROY MICRO-ORGANISMS
PURIFY WATER
ACTS AS CLEANSER & DEGREASER



ORP – IS IT IMPORTANT? YES!

Oxidation-Reduction Potential = Measure of the cleanliness of the water & its ability to break down contaminants.

ORP sensors work by measuring the dissolved oxygen. More contaminants in the water results in less dissolved oxygen because the organic material consumes the oxygen, therefore, the lower the ORP level. The higher the ORP level, the more ability the water has to destroy foreign contaminants such as microbes, or carbon based contaminants.

ORP Level (mV)	Application
0 – 150	No practical use
150 – 250	Aquaculture
250 – 350	Cooling Towers
400 – 475	Swimming Pools
450 – 600	Hot Tubs
600	Water Disinfection
800	Water Sterilization

ORP AND BACTERIAL ACTIVITY

There is a direct relationship between the ORP level and the Coliform count in water. An ORP meter measures the small voltages generated with a platinum or gold probe placed in ozonized water.

ORP Level	Coliform count in 100 ml of water
200	300
300	36
400	3
600	0

EQUIPMENT CAN PRODUCE TWO BASIC TYPES OF FLUID

1.) **Anolyte solutions** are strong oxidizing solutions with:

- pH range of **2.5 to 8.5**
- **ORP** (Oxidation-Reduction Potential) of **+600 to +1200 mV**

Uses include broad spectrum germicidal, disinfectant, purification

2.) **Catholyte solutions** are anti-oxidizing, mild alkaline solutions with:

- pH of **10.5 to 12.0**
- **ORP** of **-600 to -900 mV**

Uses include cleanser/detergent, degreaser



BENEFITS OF ANOLYTE APPLICATION

MORTALITY RATE REDUCTION

MEDICINE COST REDUCTION

BETTER FEED CONVERSION RATIO

MORE EFFECTIVE DISEASE CONTROL & CURE

COMPLETE HYGIENE PROTOCOL WITHOUT CHEMICALS

BETTER WEIGHT GAIN



ANDYLYTE DOSING

THE EXCESSIVE
BIOFILM IS A
RESULT OF
INEFFICIENT
DISINFECTION



NO ADDITIONAL LINE
CLEANING CHEMICALS
WERE USED

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CHLORINATION VS. ANOLYTE

Anolyte is safer and more effective in eradicating hazardous conditions such as Legionella

	CHLORINATION	ANOLYTE
Solution	Sodium Hypochlorite Solution	Hypochlorous Acid Solution
Compound Description	NAOCL	HOCL
Other Name	Bleach	Anolyte
Usage level	50 ppm	0.25 to 5 ppm (even at 500ppm it is Not harmful to people or animals)
MSDS Statements	Very hazardous in case of skin contact, eye contact, ingestion. It is an irritant and corrosive. Prolonged exposure may result in skin burns and ulcerations	Under normal use conditions the likelihood of any adverse health effects are low. The solution is recommended for treatment of infected or purulent wounds. If any irritation occurs, flush with water.
Dose level harmful to people	Yes	No
Kills Legionella	Yes	Yes
Removes Biofilm and Scale, eliminating hidden legionella and other bacteria	No	Yes
At high pH	Hypochlorite Ion (OCI-)	Hypochlorous Acid (HOCl)
Contact time		Requires the shorted time to achieve a 99% kill of E. coli
Shelf-life	Lye added resulting in burn potential	No Lye added
Biocidal impact	Only as disinfectant	As Disinfectant and sporicidal agent
Resistance	Bacteria develops resistance to bleach due to its method of attack and residual organisms, biofilm remaining, and interaction with detergents	Bacteria does not develop a the same type of resistance due to impact at cellular level, destroys biofilm, and no need for significant detergent use.

CHLORINATION VS. ANOLYTE

Anolyte is safer and more effective in eradicating hazardous conditions such as Legionella

Disinfectant	Description	Advantages	Limitation
Anolyte	Electrochemical activation of brine solution in a membrane electrolyser	<ul style="list-style-type: none">• Strong disinfect and and oxidation agent• Very effective against all kinds of bacteria and viruses• Highly effective as sporicidal agent• Effectively eliminates bad tastes and odors• Removes biofilms• Significantly less formation of chlorine compounds, halogens and TMT• No toxic by products: chlorites (ClO₂) and chlorates (ClO₃)• No acute or chronic toxicity when diluted in water• Low cost• No transport or storage problem• Easy and safe storage and handling	<ul style="list-style-type: none">• Ventilation might be required in the installation room to remove fumes
Chlorine	Used in a gaseous state, requires strictest safety measures	<ul style="list-style-type: none">• Efficient oxidant and disinfectant• Efficiently eliminates tastes and odors• Featured with aftereffect• Capable of controlling the growth of algae, biological slimes and microorganisms• Decomposes organic contaminants (phenols...)• Iron and magnesium oxidant. Decomposes hydrogen sulfide, cyanides, ammonium and other nitrogen compounds	<ul style="list-style-type: none">• Strict requirements for transportation and storage• Potential danger for health in case of a leak. Formation of disinfection byproducts, such as chloroform. The MAC in water will be increased in the near future from 60 mkg/l up to 60 mg/l because there was no proof of direct action of the chloroform on DNA.

WHAT IS ANOLYTE



Anolyte Water, a mixed oxidant, is produced by electrolyzing dilute brine(NaCl) water in the cathode & anode chamber of an unique diaphragmatic electrolytic cell. An electro-chemical activation is used to convert an aqueous solution of sodium chloride into a solution known as "Anolyte."

ANOLYTE IS SUPERIOR

- Only Anolyte can claim to be Effective as a Disinfectant and Safe, Removes Biofilm, Eliminates Algae, is Easy to Maintain, and has a Low Cost throughout its Lifecycle.
- Anolyte is Superior to sodium hypochlorite in destroying spores, bacteria, viruses and other pathogens.
- For more than 10 years, Anolyte has demonstrated that microorganisms do not develop a resistance against the disinfection power of Anolyte over any period of time
 - Pathogens develop a resistance to sodium hypochlorite over time
 - Sodium hypochlorite at 5% concentrate disinfects; however, it does NOT sterilize and is NOT effective against cysts (Guardia, Cryptosporidium)

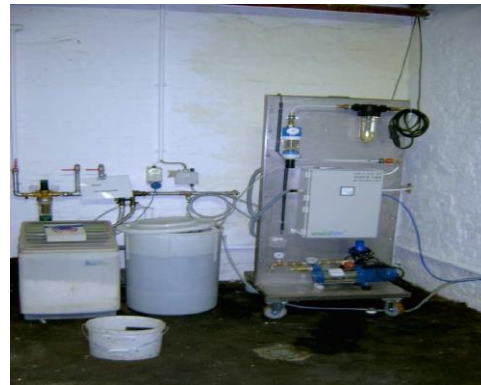


ANOLYTE IS SUPERIOR

- Anolyte has a lower kill time
 - Sodium hypochlorite loses its strength during long-term storage and is a potential danger due to the production of gaseous chlorine emissions during storage period
- Anolyte is more soluble
- Anolyte is effective as a bactericidal at pH values of 4-9
- Anolyte can be produced at an ORP up to +1200 making it more effective as a biocide (+800 is pure sterilization)
- Anolyte is minimally corrosive – Anolyte is the Product of choice for disinfection
- Anolyte produces about half the trihalomethanes when interacting with organic material in comparison to traditional chlorine use.
- Anolyte is anti-scaling:
 - Eliminates existing scale
 - Eliminates pathogens being harbored within scale
 - Blocks any dissolved solids within the water supply, so new scale is prevented from forming.



CUSTOM ENVIROLYTE INSTALLS



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TURKEYS

WAGLER FARMS INDIANA, USA



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BARRICKMAN FARMS, CANADA



Installed the ELA-6000 and uses Anolyte for their 600 sow to finish Hog operation, Turkey and Layers.

SPRINGCREEK FARMS, SD, USA



Installed an ELA-2000 Anolyte
Generator to produce an Antibiotic Free
Turkey operation

ROSEDALE FARMS, CANADA

Installed an ELA-6000 Electrolyzer dosing their RO water
with Anolyte at 4% for 550 Turkey Pig, Dairy, and Layer
Operation.

Noticing lower mortality and better overall animal health
with aggressive line cleaning action.



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NEXT STEPS

- Call OmniLyte Central
 - (270) 318-0677
 - Ask For Sam
- Request Analyte to Try
- Get a Quote on a complete system
- Replace Existing System
 - Eliminate Antibiotics
 - Reduce Operating Expenses
 - Improve Animal Health
 - Increase Profitability



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