

# OmniLyte

## CENTRAL



Sam Hofer: Sales & Marketing

Phone: 270-318-0677

Email: [sam@OmniLyteUSA.com](mailto:sam@OmniLyteUSA.com)

Website: [omnilytecentral.com](http://omnilytecentral.com)

# PIGS

- Control and Reduction of Disease
- Better Digestion and Feed Conversion Ratios
- Increasing Livestock Yields
- Water Purification for: PIGS





**INCREASED PROFITABILITY**



**INCREASED SAFETY**



**ELIMINATE ANTIBIOTIC USE**



**ELIMINATE TOXIC CHEMICAL USE**

*OmniLyte*  
CENTRAL

# 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 Pig farming market.



*Omni*  *Lyte*  
CENTRAL

# 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



# 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 by 50-80%

MEDICINE COST REDUCTION 50-90%

BETTER FEED CONVERSION RATIO

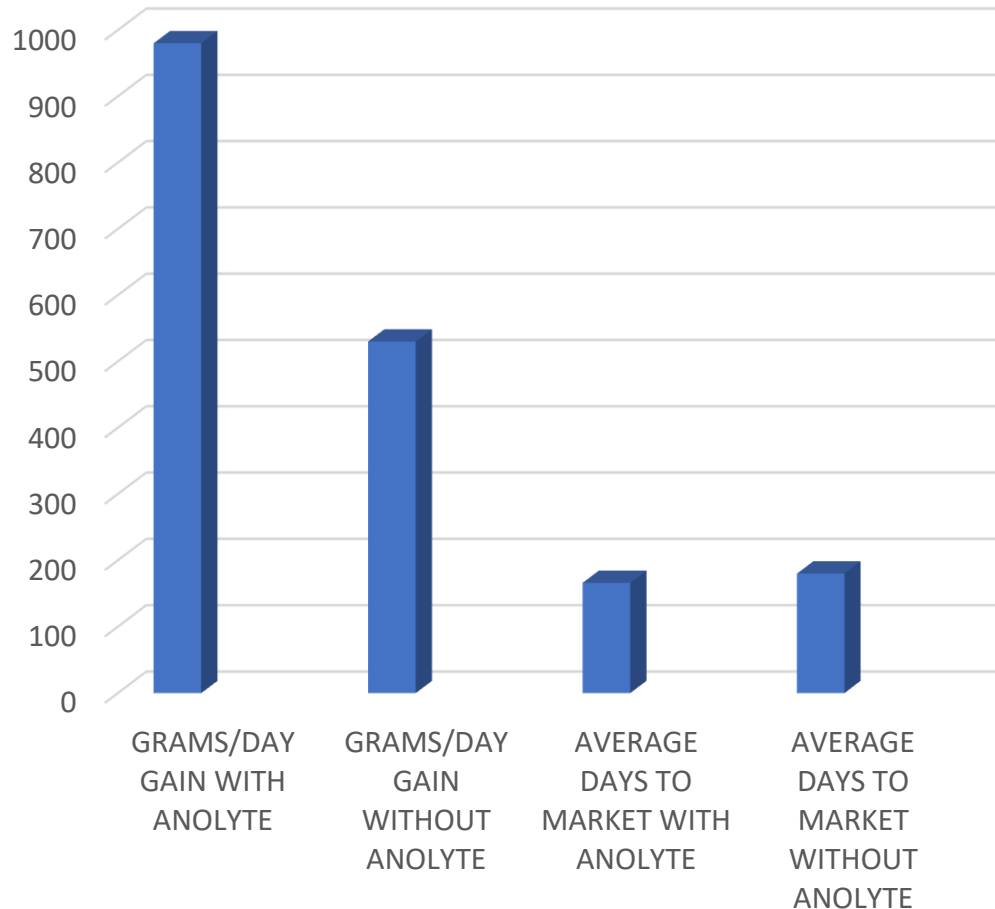
MORE EFFECTIVE DISEASE CONTROL & CURE

COMPLETE HYGIENE PROTOCOL WITHOUT CHEMICALS

BETTER WEIGHT GAIN AT ALL CYCLES OF PIG GROWING



# GROWTH & MARKET



The graph shows average daily gain reports for grower to finished pigs based off one whole year of data without the addition of Anolyte vs one whole year with the addition of Anolyte. As a result, client has significant more space in feeder barn with more throughput, and is in the process of increasing his sows herd from 550 to 700 sows we can confidently say. That client has a magnificent 43% increase in average daily gain resulting in many \$\$\$.

Also the graph shows average days to market reports for grower to finished pigs based off 5 months of data from Jan. to May with out Anolyte in 2015, and with Anolyte 2016. Nothing has changed in this operation besides the addition of Anolyte. This is HUGE for your bottom line.



# ANDYLYTE DOSING

THE EXCESSIVE  
BIOFILM IS A  
RESULT OF  
INEFFICIENT  
DISINFECTION



NO ADDITIONAL LINE  
CLEANING CHEMICALS  
WERE USED

*OmniLyte*  
CENTRAL

# 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 (OCl-)	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"><li>• Strong disinfect and and oxidation agent</li><li>• Very effective against all kinds of bacteria and viruses</li><li>• Highly effective as sporicidal agent</li><li>• Effectively eliminates bad tastes and odors</li><li>• Removes biofilms</li><li>• Significantly less formation of chlorine compounds, halogens and TMT</li><li>• No toxic by products: chlorites (ClO<sub>2</sub>) and chlorates (ClO<sub>3</sub>)</li><li>• No acute or chronic toxicity when diluted in water</li><li>• Low cost</li><li>• No transport or storage problem</li><li>• Easy and safe storage and handling</li></ul>	<ul style="list-style-type: none"><li>• Ventilation might be required in the installation room to remove fumes</li></ul>
Chlorine	Used in a gaseous state, requires strictest safety measures	<ul style="list-style-type: none"><li>• Efficient oxidant and disinfectant</li><li>• Efficiently eliminates tastes and odors</li><li>• Featured with aftereffect</li><li>• Capable of controlling the growth of algae, biological slimes and microorganisms</li><li>• Decomposes organic contaminants (phenols...)</li><li>• Iron and magnesium oxidant. Decomposes hydrogen sulfide, cyanides, ammonium and other nitrogen compounds</li></ul>	<ul style="list-style-type: none"><li>• Strict requirements for transportation and storage</li><li>• 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.</li></ul>



# WHAT IS ANOLYTE



Anolyte Water, a mixed oxidant, is produced by electrolyzing dilute brine( $\text{NaCl}$ ) 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)

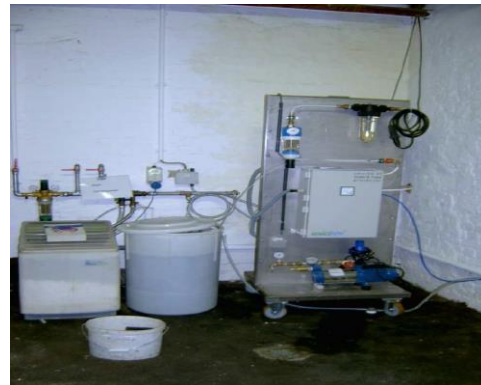


# ANOLYTE IS SUPERIOR

- 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



*Omni*Lyte  
CENTRAL

# ASPENHEIM FARMS

**Client:** Aspenheim Farms, Bagot, Manitoba, Canada

**Size:** 500 Sow to finish Hog operation

**Unit:** ELA -4000 **Pump:** Grundfos DME-940

**Extras:** Inline ORP meter, Water Softener, Digital flowmeter with logging

**Dosage:** 4% Anolyte

**Salt usage:** 20kg bag/day \$4.60/bag/day

**Electricity usage:** 50kva/day x 0.05 cents = \$2.50/day



*OmniLyte*  
CENTRAL

# ASPENHEIM FARMS ANOLYTE BENEFITS

1. Promotion of general health as a drinking water additive
2. Super effective disinfectant, waterline cleaner, and biofilm/scale remover
3. Statistically proven better mortality, digestion, weight gain & feed conversion
4. Disease control, and cure ■ Rapid Return on Investment
5. Grain and feed storage additive (reduced mold)
6. Bacteria control through misting or fogging (Pest Control on the skin)

**Results:** One month after dosing Anolyte, we noticed all lines were completely free from biofilm and debris. Pigs looked healthier with more Energy.

**Conclusion:** The addition of Anolyte for this application has exceeded all expectations and performances with the Client testifying that the Anolyte System was paid off in less than four months. Not hard to believe, and we have seen this many times before. This Client had good quality well water to begin with but lacked the very important ingredient that every water distribution needs: **“Safe, Powerful, and Non-Toxic, Disinfection and Water Purification”**





# ROLLING ACRES FARM



**Client:** Rolling Acres Farms, Eden , Manitoba, Canada

**Size:** 1200 Sow to Finish Piggery

**Unit:** EnvirolYTE ELA-6000

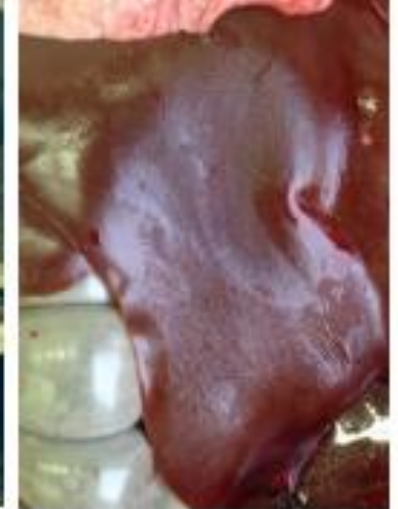
**Pump:** Lutz-Jesco ,LB400

**Extras:** Water Softener, Anolyte Fogger

**Dosage:** 3% Anolyte



**Before Anolyte Dosing**



**After Anolyte Dosing**

*Omni**Lyte*  
CENTRAL

# ROLLING ACRES FARM

Rolling Acres Hog Farm was experiencing erratic slaughterhouse condemnations due to persistent *m.avium*, *m.fortuitum*, and *acinetobacter* parasite infections lesions in Liver reaching as high as 37.11% condemnations in November of 2014.

OmniLyte quickly supplied, and installed an Envirolite Anolyte system as a pilot project on Nov 20, 2014. The following months showed a vast improvement in reduced liver lesions/condemnations to an average of 0.18%, a vast improvement over the farm's historical benchmark. Farm managers also noted improved energy, better skin color, increased growth, and lower mortality. All of these improvements resulted in a rapid ROI making this their best investment to date!

Envirolite ELA-4000 Electrolyzer dosing Anolyte at 4% for 550 Sow Operation.

- 1. 43% increase in daily gain!
- 2. Gained 14 days to market for his feeder pigs!
- 3. Feed conversion improved by 30%
- 4. Significant improvement in mortality
- 5. Pigs feeling better and more active





# HURON FARMS, ELIE, MB, CANADA

Envirolyte EL-6000 Electrolyzer dosing their RO Water with Anolyte at 2% for 680 Sow Farrow to Finish operation.

"Ever since we started using Anolyte we have had many good results. After years of E-Coli in the farrowing it has disappeared over 97%. Had skin diseases in some pigs (Greasy Pig) where there was no cure, and so far Anolyte showed 100% effective in curing it. Had potent Bio-film in water lines that carried E.coli--now are totally spotless/clean in only month of using Anolyte. Before Anolyte, we tried CID-2000 and other products with too much money spent and wasted with little results. It has even reduced our medication and disinfectant expenses. Awesome product and safe to use"



*Omni**Lyte*  
CENTRAL

# CAMROSE FARMS, CAMROSE, AB, CANADA



Camrose Farms installed the Ela-3000 for their 500 Sow to Weanling Hog operation and stated: "Better than peroxide, and acid any day plus saving 50G/year"

*Omni**Lyte*  
CENTRAL

# MAYFAIR FARMS, KILLARNEY, MB, CANADA

The Mayfair Farms installed the ELA-4000 Electrolyzer for their 1200 Sow Top pigs Multiplier operation and reported: Before we used Anolyte we were shipping pigs at 210 days average 130 kg. We started injecting Anolyte and saw a fast response in growth. We are now shipping our first hogs out of rooms 162 days old and still maintaining a 130 kg average. We now have all the pigs gone the oldest with 185 days as well as 0.5 % in mortality drop.



*Omni**Lyte*  
CENTRAL

# TSCHETTER FARMS, IRRICANA, ALTA., CANADA



Tschetter Farms installed the ELA-1200 Electrolyzer, dosing livestock water with Anolyte at 4% for their 240 Sow farrow to finish operation. They reported obvious gained benefits after only a week of dosing with:

- Aggressive cleaning of water lines with more water pressure,
- Better feed conversion/weight gain, and
- Improvement in Animal Health.

# LAKESIDE FARMS, CARTIER, MB, CANADA



Lakeside Farms installed the EL-6000 Electrolyzer, dosing livestock water source with Anolyte at 3.5% for their 600 Sow Farrow to finish operation.

Obvious Gained benefits:

- Better Animal Health
- Significant drop in Mortality
- Cleaned their water lines of Iron & Manganese scale buildup giving them peace of mind knowing water flow is adequate.

*Omni**Lyte*  
CENTRAL



# ROLLING ACRES FARMS, EDEN, MB, CANADA

Rolling Acres Farms installed the ELA-6000 Electrolyzer, dosing Anolyte at 4% for their 1200 Sow Farrow to Finish operation. They reported that it cured their Tuberculosis lesions disease of the liver and lymph nodes. after significant condemnation of shipping pigs to the slaughterhouse after 3 weeks of Dosing Anolyte at 10%, following a year long struggle to get the disease under control. They also reported noticing pinker, healthier animal color, increased animal energy, heavier weaning weight, and lower mortality rates.



*Omni*  *Lyte*  
CENTRAL

# RIDGELAND FARMS, DUGALD, MB, CANADA

Ridgeland Farms installed the EL-6000 Electrolyzer, dosing their water with Anolyte at 3% for 630 Sow Farrow to Finish operation.

They reported: "Decreased mortality, improved conception, and significantly reduced scours in Farrowing"



# PRAIRIE BLOSSOM FARMS, STONEWALL, MB, CANADA



Prairie Blossom Farms installed the ELA-1200 Electrolyzer, dosing their water with Anolyte at 4% for 700 sow farrow to wean operation.

They reported: "Last 60 sows pregnancy checked 4 were negative. Hallelujah Praise the Lord!!!!!" Sent "texts to everyone that was aware of my repeats and the water system we installed and let them know our success with the Anolyte system. My phone is ringing off the hook now. The repeats are so few now it looks too good to be true—If it's the water system it's priceless"

## **It Was!**

The customer also noticed water consumption went up 35% – 40%.

Barn scours in piglets stopped and looseness in stage 1 pigs improved significantly.

*Omni**Lyte*  
CENTRAL



# BONHOMME FARMS, ELIE, MB CANADA

Bonhomme Farms installed the ELA-6000 Electrolyzer, dosing Anolyte at 4% for 680 Sow farrow to finish operation. They also began dosing 7000 layers at 2%. They reported noticing aggressive waterline cleaning, and maintenance with piglet scours reduced to none. Excellent sow lactating, and feed intake with lower mortality, and faster weight gain.



*Omni**Lyte*  
CENTRAL

# NORQUAY FARMS, CANADA



A week after Dosing Anolyte 850 Sow Farrow to finish operation at 4% Neutral Anolyte, Narquay Farms noticed:

1. Sows fecal matter more loose, and clarity
2. Powerful line cleaning action.
3. Don't need more expensive pit additive or flowing agents
4. Sows have a heartier appetite and are eating better

*OmniLyte*  
CENTRAL

# RESULTS



**SKIN DISEASE  
BEGINNING**



**SKIN DISEASE  
GETTING WORSE**



**ONE WEEK OF ANOLYTE  
DIPPING  
DISEASE FREE!!**



# 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



# OmniLyte

## CENTRAL



Sam Hofer: Sales & Marketing

Phone: 270-318-0677

Email: [sam@OmniLyteUSA.com](mailto:sam@OmniLyteUSA.com)

Website: [omnilytecentral.com](http://omnilytecentral.com)