

# Conquest International LLC

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## Use of Electrolyzed Water in Poultry Farming

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**Conquest International LLC** has Innovative, Cutting-Edge Foreign Technology that will totally change the world in its benefits to mankind and the environment.

The technology is Electrolyzed Water which is 100% Green, and Environmental-Friendly.

The use of All-Natural Electrolyzed Water in lieu of man-made chemical compounds will completely revolutionize the Poultry Industry by putting Pioneer Innovators in the vantage position of being the first in the industry to gain the competitive edge over other Poultry Farm Operators.

The result will be ***An Immediate Increase in Bottom-Line Profits.***

The use of Electrolyzed Water Technology is in its infancy in Poultry Farming, with **Conquest International LLC** in the vantage position to educate and get its customers off to a head-start and increased profitability ahead of other competitor Poultry Farmers.

Electrolyzed Water has hundreds of different applications in Poultry Farming, Livestock Farming, Fish Farming, Agriculture, Water Purification, Wastewater Remediation, Cleaning and Sanitizing, Mold Control and many other uses.

With the ever-increasing ban on the use of man-made toxic chemicals that pollute the Atmosphere, Soil and Water Supplies, **Conquest International LLC** possesses the only viable alternative which is the use of **Electrolyzed Aqua Solutions** that are 100% Totally-Green, Environmentally-Friendly, Non-Toxic, Bio-Degradable Products.

The phenomenon of Electro-Chemical Activation of water was discovered in 1972 by a Russian scientist, Dr. Vitold M. Bakhir. See <http://bakhir.com/>.

**Enviolyte Industries International Ltd** [[www.Enviolyte.com](http://www.Enviolyte.com)] is the undisputed world leader in Activated Electrolyzed Aqua Solution Technology.

**Conquest International LLC** works directly with the 2 Russian owners who formed **Enviolyte Industries International** in Tallinn, Estonia and perfected the Electrolyzed Water Technology.

Activated Electrolyzed Aqua Solutions are produced in a Dual-Chambered Electrolysis Cell using nothing but Water and Electricity.

If there isn't enough TDS [Total Dissolved Solids] in the Feed Water to conduct electricity, a diluted salt brine solution is added to create the necessary electrical path, using Sodium Chloride Salt or Potassium Chloride Salt.

The compounds that are synthesized in the electrolysis cell are unique and cannot be produced by traditional methods. All of the Synthesized Electrolyzed Aqua Solutions revert back into their natural state as Water, Other Compounds and Basic Elements as 100% Totally-Green By-Products.

In the marketing and sale of Enviolyte commercial water electrolyzers, **Conquest International LLC** is the Exclusive U.S. Distributor for **Enviolyte Industries International** with authority to market elsewhere worldwide in Enviolyte open territory.



### **Enviolyte ELA-6000 Commercial Water Electrolyzer**

Every Agriculture, Poultry and Livestock Farm needs an ELA-6000 commercial water electrolyzer.

The ELA-6000 simultaneously co-produces 2 streams of electrolyzed water at the rate of 158 gallons per hour [GPH] of which approximately 80% [126 GPH] is Neutral Anolyte Biocide Solution and 20% [32 GPH] is Catholyte High pH Alkaline Detergent Cleaning Solution.

As a Disinfectant/Sterilant, Neutral Anolyte Biocide has greater killing power than Chlorine, Chlorinated Water, Chlorine Dioxide, Sodium Hypochlorite, Hydrogen Peroxide and Ozone.

Neutral Anolyte Biocide is a 100% Organic, All-Natural Compound.

**Enviolyte Neutral Anolyte Biocide has proven to be virtually 100% effective in killing any and all microbial pathogens against which it has been tested.**

Neutral Anolyte Biocide brackets the Neutral 7 pH range, has an Oxidation Reduction Potential [ORP] of +700 to +900 millivolts [mV] and contains 500 to 700 ppm of Free Available Chlorine.

The primary killing power in Neutral Anolyte Biocide is the Free Available Chlorine. Free Available Chlorine is chlorine that is present in the form of Hypochlorous Acid [HOCL] and Hypochlorite Ions [ClO<sup>-</sup>] -- or as Dissolved Elemental Chlorine that is available to react where needed.

Hypochlorous Acid [HOCL] is the primary component in Neutral Anolyte Biocide that produces the greatest killing power against micro-organisms as a stronger disinfecting and sanitizing agent than Chlorine, Chlorinated Water, Chlorine Dioxide, Hydrogen Peroxide, Sodium Hypochlorite and Ozone.

While Hypochlorite Ions [ClO<sup>-</sup>] are also an active killing agent, Hypochlorous Acid [HOCL] is roughly 80 times more effective than Hypochlorite Ions in killing power, largely because HOCL has greater efficacy in penetrating microbial cells at the mitochondrial level with virtually 100% effectiveness in totally inactivating and destroying the entire cell -- membrane, body and DNA -- in preventing residual cells from mutating into a stronger form of micro-organism.

HOCL should not be confused with Sodium Hypochlorite [NaOCl] which is commonly referred to as "Bleach" and is prepared by reacting diluted caustic soda solution with liquid or gaseous chlorine.

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### **Applications of Neutral Anolyte Biocide in Poultry Farming Include:**

- Elimination of the requirement to purchase and store Toxic, Man-Made Sanitizing and Disinfecting Chemicals. In lieu thereof, Neutral Anolyte is *Generated On-Site As-Needed*.
- General Sanitizing & Disinfection using Full Strength Neutral Anolyte.
  - Surface Cleaning and Equipment Sanitizing.
  - Spraying & Fog Misting to Kill Bacteria, Viruses, Mold, Spores & Fungi.
- Control of De-Feathering by Fog Misting with Full Strength Neutral Anolyte to destroy Aerobic and Anaerobic Bacteria.
- Disinfection of feed to kill microbial pathogens that occur in most poultry feeds.
- Better digestion and feed conversion ratio.
- Prevention of infectious diseases.
- Reduced mortality rate.
- Disinfection of Drinking Water.

It is important to keep the waterers clean since the water can become polluted with airborne microbial organisms, contaminated feed, manure, mucus and saliva from the poultry.

Since diseases such as E.coli, Salmonella & Fowl Cholera can be transmitted via the drinking water, it is important to clean and disinfect the waterers on a daily basis with Full Strength Neutral Anolyte.

Disinfected Drinking Water should not be used when medication is being administered.

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## General Sanitizing



The use of Neutral Anolyte Biocide in Poultry Farming begins with General Sanitizing of the Poultry sheds by fogging and spraying the building interior to encapsulate and kill Bacteria and Other Microbial Pathogens in the air and on surface areas.

Neutral Anolyte Biocide disinfects, removes odors, binds dust and improves the quality of breathing air for both poultry and humans.

Litter and manure must be sprayed at least once a day with Full Strength Neutral Anolyte Biocide to kill microbial pathogens and control odor.

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## Drinking Water Disinfection



For good health, clean water is essential in poultry farming. By continuously dosing Neutral Anolyte Biocide into the drinking water, all harmful bacteria, viruses, spores, mold and other fungi are eliminated. Bio-Film is also removed, with prevention of re-growth.

Based on the amount of biological contamination in the source water, treatment by continuously injecting 2% to 3% of Neutral Anolyte Biocide into the water supply line is normally sufficient to kill all the Microbial Pathogens in the drinking water, based on 500 to 700 parts per million [ppm] of Free Available Chlorine in Envirolyte Neutral Anolyte Biocide.

The characteristics of the drinking water are not changed.

Adding Neutral Anolyte Biocide to drinking water improves animal health and increases weight gain

## Food Preservation

About 80% of the poultry diet is grains that are high in carbohydrates [Corn, Wheat, Rice, Barley, Oats etc] plus Soy Beans that are high in protein, which may be grown by the Poultry Farmer, or commercially purchased in bulk or packaged as specially formulated mixtures that include vitamins, minerals and other supplements.

An antibacterial compound needs to be added to Poultry Food since harmful bacteria and other microbial pathogens occur naturally in most feeds, which can also become contaminated with *E.coli*, *Avian Influenza*, *Salmonella*, *Listeria* and other disease causing organisms. Chinese poultry feed poses high risk of contamination by Microbial Pathogens.



**Neutral Anolyte Biocide in the ratio of 4 gallons per ton of feed grain can be manually sprayed over the grain.**

- In this application Neutral Anolyte Biocide serves as a preservative that does not affect the quality of the feed grain, which is often the case when traditional chemical preservatives are used. In addition to disinfection, Neutral Anolyte Biocide adds acidity and inhibits “breathing” of the grain, resulting in preservation of many important vitamins that usually disappear when temperature goes higher than 50° C.
- The important advantage of treatment with Neutral Anolyte Biocide is that high quality feed grain can be preserved for future consumption regardless of its moisture content and weather conditions.

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## Hormone & Antibiotic Use in Poultry Farming

Although hormone use is prohibited in many countries, antibiotics are used in large quantities.

While many contend that the use of antibiotics puts humans at risk as bacterial strains develop stronger and stronger resistances, advocates point out that after decades of heavy use of antibiotics, opponents of antibiotics can only argue about theoretical risks, since actual examples are difficult to document.

According to the U.S. Federal Food and Drug Administration, American farmers who raise food-producing animals and poultry use about 29 million pounds of antibiotics each year.

In the USA, to prevent any residue of antibiotics in poultry meat, any given antibiotics are required to have a "withdrawal" period before the poultry can be slaughtered

A team of scientists from the University of Maryland and other universities found that large-scale Organic Poultry Farms -- which are not allowed to use antibiotics -- had significantly lower levels of drug-resistant bacteria than their conventional counterparts. Any drug-resistant bacterium that was found was assumed to have been transmitted to the poultry farm in contaminated feed or other means.

## Disinfection of Manure & Litter



Manure and Litter must be sprayed several times a day with Full Strength Neutral Anolyte Biocide to kill microbial pathogens and control odor.

With reference to a typical manure lagoon that he sampled, Kellogg Schwab, director of the Johns Hopkins Center for Water and Health, stated, *“There were 10 million E. coli per liter of sampled waste. Ten million. And you have a hundred million liters in some of those pits. So you can have trillions of bacteria present, of which 89 percent are resistant to drugs. That's a massive amount that in a rain event can contaminate the environment.”*

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## Effect of Neutral Anolyte in Egg Production



Laying hens that consume drinking water disinfected with Neutral Anolyte Biocide produce eggs with stronger shells.

For up to 3 days after an egg is laid, Salmonella and other microbial pathogens can penetrate the egg shell and enter the interior of the egg, with the Salmonella bacteria continuing to grow.

Such contamination and spread of disease can be prevented if the eggs are immersed for 5 minutes in Neutral Anolyte Biocide containing 100 parts per million of Free Available Chlorine.

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## Efficacy of Neutral Anolyte Biocide

Because of all the variable factors, it is impossible to state the exact Free Available Chlorine [FAC] Strength, Dosing Ratio or Contact Time that is required to kill a specific micro-organism using Envirolyte Neutral Anolyte Biocide.

In reality, the only way to determine the required FAC Strength, Dosing Ratio and Contact Time is by experimentation, since the type and concentration of microbial contamination differs from one instance to another.

One of the main limiting factors is that of microbial cells mutating into an increasingly stronger organism when an antibiotic or biocide does not achieve a 100% kill rate.

The advantage of Envirolyte Neutral Anolyte Biocide is the high level of Hypochlorous Acid [HOCL] content in the generation of Free Available Chlorine.

HOCL has the greatest efficacy in penetrating microbial cells at the mitochondrial level with virtually 100% effectiveness in totally inactivating and destroying the entire microbial cell -- membrane, body and DNA -- in preventing residual cells from mutating into a stronger form of micro-organism.

The amount of Free Available Chlorine [FAC] and Contact Time are the determining factors in establishing the efficacy of Neutral Anolyte Biocide in microbial reduction.

The same result can be obtained during a short contact time with a high FAC concentration, or with a lower FAC concentration over a longer contact time.

Temperature is also important since most biocides have a lower efficacy at low temperatures.

The presence of proteins reduces efficacy as they interact with the Neutral Anolyte Biocide.

There is a direct correlation between ORP and predictable antimicrobial activity of Neutral Anolyte Biocide.

High ORP [+700 to +900 mV] will produce effective microbial elimination in 5 minutes or less. **\*See Note below.**

The efficacy of Neutral Anolyte Biocide falls when the ORP is reduced.

At low ORP anolyte concentrations of Neutral Anolyte Biocide and/or high microbial levels, the antimicrobial kill rate of Neutral Anolyte Biocide can be increased by longer contact time.

The concentration of the microorganisms, the age of the bacterial community, adherence attachment to particulate matter, and the presence of biofilms are also determining factors in the efficacy of Neutral Anolyte or other biocide.

**\*Note:** While the Free Available Chlorine in Neutral Anolyte Biocide can effectively eliminate microbial pathogens in 5 minutes or less, it can take up to 50 minutes with Synergize Disinfectant whose active ingredients are Glutaraldehyde and Quaternary Ammonium.

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## Advantages of Using Electrolyzed Water in Poultry Farming

The use of All-Natural Electrolyzed Water in lieu of man-made biocides, hormones, antibiotics and other chemical compounds will completely revolutionize the Poultry Industry by putting Pioneer Innovators in the vantage position of being the first in the industry to gain the competitive edge over other Poultry Farm Operators.

The result will be **An Immediate Increase in Bottom-Line Profits.**

The use of Neutral Anolyte Biocide instead of antibiotics to kill Microbial Pathogens is far superior to other disinfectants such as Virkon-S which is sold as tablets or powder that must be mixed with water before it can be sprayed or wiped on contaminated surfaces.

By contrast, Enviolyte Neutral Anolyte Biocide is *Generated On-Site As-Needed* and does not require purchase, transportation, storage and mixing as must be done with man-made toxic chemical biocides.

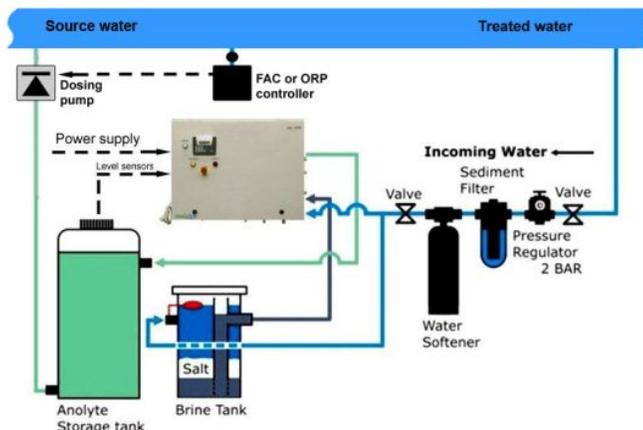
For the ultimate in the use of Enviolyte Neutral Anolyte Biocide in Poultry Farming, see the YouTube Video at <http://www.youtube.com/watch?v=0vSyXoLm48Y>

An incredible potential exists for those getting on board at the Present Ground Floor Level of Opportunity as the Ever-Increasing Awareness of Electrolyzed Water goes through its Current State of Lift-Off Velocity to a Supersonic Hyper-Growth State of Acceleration as producers and users become aware of the unique properties and benefits of Enviolyte Activated Electrolyzed Aqua Solutions.

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### Full Spectrum Total Turn-Key Services

**Conquest International LLC** provides Full Spectrum, Total Turn-Key Services in the build-up of Enviolyte commercial water electrolyzers into composite operating systems with Warranty and Follow-On Technical Support Services.



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***Water Problems? We Have The Solution!***

**Enviolyte-Conquest USA -- Leaders in the EcoWorld**



