



AMPHARMA

**AMERICAN
PHARMACEUTICAL
INNOVATIONS
COMPANY**

Veterinary Division



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AM **PH** ARMA

***A. POULTRY & LIVESTOCK
LIQUID PRODUCTS***

AMPHIOSCAL

Liquid

*Highly Concentrated Liquid of CHELATED
Mineral and Trace element Solution*

Product Description:

- Amphi-OSCAL liquid provides “chelated” mineral nutrients essential to fertility, reproduction, eggshell quality, bone formation, good functioning of the nervous system, fat and carbohydrate metabolism, and mobilization of energy, growth and resistance. Minerals and trace elements play major roles in all metabolic function.
- Amphi-OSCAL liquid allows feeding high-quality chelated trace minerals and elements that provides the animal with more bioavailable forms of the minerals.

Benefits:

- Amphi-OSCAL liquid provides required elements that help to guard against nutritional skeletal disorders as rickets, osteomalacia and caged layer fatigue.
- Amphi-OSCAL liquid provides required elements for normal and healthy egg formation and therefore, helps to guard against eggshell disorders as soft, pigmented or corrugated eggshell.
- Amphi-OSCAL liquid is a maximum-strength balanced formula of liquid minerals that helps in reversing and overcoming stressful conditions such as heat stress, dehydration, infectious diseases accompanied with loss of minerals, diarrhea, and starvation during growing and laying periods.
- Amphi-OSCAL liquid can be used as a supplement to compensate for mineral deficiencies.
- Amphi-OSCAL liquid supplies essential minerals and trace elements that are important in improving feed conversion and metabolic functions.

Directions for Use:

For Oral Administration

- To be added to the chicks at the rate of 1 ml / 1 liter of drinking water for

five days during the second week of life.

- To be added to broilers at the rate of 1 ml / 1 liter of drinking water for five days at the age of 28 days.

- To be added to the layers at the rate of 2 ml / 1 liter of drinking water for five days before the beginning of the egg-laying and production.

Ingredients:

- Phosphoric Acid
- Magnesium Chloride
- Calcium Chloride
- Zinc Chloride
- Ferrous Sulfate
- Calcium (Calcium chloride)
- Magnesium (Magnesium sulfate)
- Copper (Copper sulfate)
- Cobalt Chloride
- Sodium Chloride
- Manganese Chloride
- Copper Chloride
- Phosphorus (Phosphoric Acid)
- Sodium (Sodium chloride)
- Iron (Iron chloride)
- Manganese (Manganese sulfate).



AMPHIOCREX

Liquid

Potent Broad-spectrum Versatile Anti-mycotic Solution

Product Description:

- Amphi-OCREX aims to protect poultry and livestock from toxic effects of mycotoxins commonly contaminating their feed.
- Amphi-OCREX is a balanced anti-mycotic formula designed according to the well-known mycotoxin-deactivating strategies. It combines the four groups of anti-mycotic ingredients that act synergistically and complementarily to guard against and help treat diseases (mycotoxicoses) due to mold contamination of grains and neutralize their toxic effect on poultry and livestock.
- Amphi-OCREX neutralizes, binds and eliminates toxins:
- Amphi-OCREX neutralizes and offsets all known mycotoxins. It acts as Anti-Ochratoxins, Aflatoxins, Trichothecens, Zearalenones, Fumonisin, Tricinins and Anti-Patulins
- Amphi-OCREX binds and deactivates other toxins biologically and enzymatically.
- Amphi-OCREX eliminates all kinds of toxins whether it is externally ingested through feed or produced internally of renal or hepatic in origin.
- Amphi-OCREX helps maintains an optimal pH of the GI tract aiding in inhibiting the breeding of pathogenic bacteria and mold, prompting healthy epithelial cells of the gut wall and strengthening its ability and activity to combat harmful pathogens.
- Amphi-OCREX helps effectively in preventing and improving diarrhea though its action in maintaining the balance between gastrointestinal tract flora and antibiotics.
- Amphi-OCREX also contains materials that help in elevating blood protein and antibody levels, improving performance and production through the increased FCR.
- Amphi-OCREX offers synergistic effects of its ingredients such as MOS and Papain to better utilize the feed and help improve overall production.

Product's Actions:

- Amphi-OCREX eliminates ingested toxins or those internally produced by liver or kidney
- Amphi-OCREX adsorbs, neutralizes and deactivates mycotoxins into highly stable neutral complexes without compromising nutrient adsorption and at the same time it deactivates and eliminates the causative mycotoxins producing fungi and or organisms.
- Amphi-OCREX detoxification capacity includes:
 - Toxins in food (before ingestion).
 - Toxins in Gut (before absorption).
 - Toxins in blood stream (before organs affection).

- Amphi-OCREX inhibits pathogenic bacteria and mold in GIT by maintaining normal pH and healthy lining epithelium
- Amphi-OCREX reduces diarrhea induced by antibiotics by restoring normal GIT flora
- Amphi-OCREX improves immunity by inducing antibody formation.

Benefits:

- Amphi-OCREX can be used in the prevention and combating mycotoxicoses due to all known mycotoxins including aflatoxicosis; multiple mycotoxicosis (T2, Citrinin, zearelenone, etc.); Ochratoxicosis; fungal contamination; liver stress conditions; immune stress and deficiency conditions; ill effects of pesticide residue.
- Amphi-OCREX can be used as an alternative to antibiotics, coccidiostats and any other feed additives and growth promoting medications and in the prevention from pathogenic bacterial infection.

Directions for Use:

To be added with the rate of 1 ml/ 2 liter of drinking water for a period of 3 to 7 days.

SHAKE WELL BEFORE USE

Ingredients:

1- Blend of Organic Acids and Salts:

- | | |
|---------------------|-----------------------------|
| • Citric acid | • Phosphoric acid |
| • Malic acid | • Tartaric acid |
| • Lactic acid | • Aspartic acid |
| • Calcium lactate | • Sodium citrate |
| • Potassium citrate | • Sodium potassium tartrate |

2- Micro-coated Biological Strains (Probiotics)

- Standardized dried bacillus subtilis fermentation extract
- Saccharomyces cerevisiae

3. Anti-oxidants

- Vitamin E (DL-Alpha tocopherol Acetate)
- Selenium as sodium selenite

4. Micronized Enzymes

- Papain



AMPHIVET-HPT

Liquid

*A Dietetic Liquid Supplement for Correcting Fatty Liver Conditions,
Preventing Liver Dysfunctions and Digestive Disturbances*

Product Description:

- AmPhi-VET HPT is a balanced hepatic support formula that helps correct and reverse fat deposits in the liver. Free fatty acids are partly metabolized in the liver to form triglyceride, which may be stored in the hepatocytes, causing fatty liver when an imbalance exists among uptake, synthesis, export, and oxidation of fatty acids.
- AmPhi-VET HPT includes carnatine, choline, sorbitol, and vitamins, which are key components involved in these processes that help increase the influx of free fatty acids to the liver, free fatty acid oxidation, the hepatic secretion of triglyceride, and lipid peroxidation. Sorbitol acts as an osmotic laxative, aiding in the elimination of toxic products from the gastrointestinal tract.

Benefits:

- AmPhi-VET HPT is a dietetic liquid supplement formulated to help in correcting fatty liver conditions and aid in preventing liver dysfunctions and digestive disturbances as a result of ingesting high oil and fat content feed.
- AmPhi-VET HPT helps maintain growth, FCR, egg-production, hatchability, and viability of birds.
- AmPhi-VET HPT aids in appetite stimulation as a hepato-renal tonic.
- AmPhi-VET HPT reduces risk of developing milk fever, mastitis, metritis (inflammation of the uterus) and retained placenta in periparturient period. AmPhi-VET HPT also increases milk production during periparturient period.
- AmPhi-VET HPT improves liver function indices and hepatic functions.
- Administration of AmPhi-VET HPT to broilers shows a significant increase in energy utilization and therefore body weight (BW) and body weight gain (BWG) due to increased muscle mass and modulation of the body composition.

- AmPhi-VET HPT guards against the hepatic hemorrhage due to FLHS.
- AmPhi-VET HPT increases cellular immune responses in FLHS and so improves the clinical course.
- AmPhi-VET HPT improves growth performance in dairy cattle
- AmPhi-VET HPT supplementation improves both lactation performance and fertility.
- AmPhi-VET HPT reduces mortality rate due to fatty liver in both poultry and livestock.

Directions for Use:

- For oral administration

To be added to the poultry at the rate of 1-2 ml / 1 liter of drinking water for a period of five days.

Ingredients:

Each 1 Liter AmPhi-VET HPT liquid contains:

- Carnitine, Choline Chloride, Sorbitol, Niacin, Vitamin E, and Vitamin B₁₂.



AMPHIGOUTGONE

Liquid

*Potent Lipotropic Weight-Gain Factor
(High Concentration Water-Soluble Solution)*

Product Description:

- Amphi-GOUTGONE is a combination of compounds aimed at optimizing liver, kidney, and heart functions by aiding in correcting and reversing fat deposits.
- Free fatty acids are partly metabolized in the liver to form triglyceride, which may be stored in the hepatocytes, causing fatty liver when an imbalance exists among uptake, synthesis, export, and oxidation of fatty acids.
- Amphi-GOUTGONE combines carnitine, methionine, betaine, choline, L-Lysine and vitamins, which are key components involved in these processes that help increase the influx of free fatty acids to the liver, free fatty acid oxidation, the hepatic secretion of triglyceride, and lipid peroxidation.
- Amphi-GOUTGONE contains sorbitol acting as an osmotic laxative, aiding in the elimination of toxic products from the gastrointestinal tract.
- Amphi-GOUTGONE includes Vitamin-B Complex group and Potassium Citrates improving the conversion of feed and helping in eliminating stress in birds due to transportation and overcrowding, thus minimizing loss.

Benefits:

- Amphi-GOUTGONE is a dietetic liquid supplement formulated to help in correcting fatty liver conditions and aid in preventing liver dysfunctions and digestive disturbances as a result of ingesting high-oil and fat-content feed.
- Amphi-GOUTGONE helps maintaining growth, FCR, egg-production, hatchability, and viability of birds.
- Amphi-GOUTGONE aids in appetite stimulation and as a hepato-renal tonic and rejuvenator.
- Amphi-GOUTGONE helps reduce mortality as a result of gout and ascites.

Directions for Use:

For oral administration

- To be added to the poultry at the rate of 1-2 ml / 1 liter of drinking water for a period of five days.

Ingredients:

Each 1 Liter contains:

1. Amino acid derivative o Carnatine
2. Amino acids
 - Methionine
 - L-Lysine
3. Vitamins
 - Vitamin E
 - Vitamin B₁ (Thiamin)
 - Vitamin B₂ (Riboflavin) o Vitamin B₃ (Niacin)
 - Vitamin C (Ascorbic acid)
4. Choline (Choline chlororide)
5. Betaine.



AMPHIFLUEX-LQ

Liquid

*Synergistic Combination of Immune System Enhancers with
Remarkable Anti-viral and Anti-stress Properties*

Product Description:

- Amphi-FLUEX LQ is a unique combination of the most advanced feed additive in the market in the form of a solution.
- Amphi-FLUEX LQ contains a well-balanced patented formula of Vitamin B₁, Vitamin B₆, and selected synthetic amino acids. In addition, Amphi-FLUEX LQ contains a proprietary mix of Pidotimod, Taurine, GABA (gamma amino butyric acid), Xylo-Oligosaccharides (XOS), and Methionen-Chelated Zinc.
- Amphi-FLUEX LQ helps combat stress during disease, post-vaccination, and other stressful conditions. Pidotimod is an immune system enhancer, which promotes the animal's immune system to produce interferon and antibodies, which in turn help combat viral infection. Other ingredients in Amphi-FLUEX LQ work synergistically to help improve the animal's appetite and capacity-increasing production and improving the physiological functions for faster recovery from illness.
- Amphi-FLUEX LQ helps the animal in improving tolerance for symptoms associated with viral and bacterial infections.
- Amphi-FLUEX LQ helps in the processes of excreting urea through the kidneys.
- Amphi-FLUEX LQ also helps through improving the physiological functions of the animal to aid in neutralizing endotoxins and inhibit the endogenous inflammatory mediators (TNF), thus assisting sick animals survive severe sepsis and multiple organ dysfunction.
- Amphi-FLUEX LQ shows synergistic effects improving antibiotics efficacy and complements microelements and vitamins, anti-stress.

Benefits:

- Amphi-FLUEX LQ can be used before and after vaccination to promote the production of antibodies and maintain the animal's well-being.

- Amphi-FLUEX LQ can be used as the prevention and adjunctive supplement during viral disease, especially immunosuppressive disease such as ND, IB, IBD and proventriculitis of poultry.
- Amphi-FLUEX LQ provides excellent support in stressful conditions such as long-distance transportation, sudden change in weather, high temperature, during symptoms of growth and development retardation, weakened resistance against disease and infections, loss of appetite and weakness.
- Amphi-FLUEX LQ can be given either alone or in combination with chemicals or antibiotics, as recommended in severe cases.

Directions for Use:

- For oral administration with drinking water or with the feed.
- As a supplement during disease:
 - 100 ml to 150 L of drinking water or 100 kg of feed for five to seven days of continuous use.
- For prevention of disease:
 - 100 ml to 200 L of drinking water or 150 kg of feed for five to seven days of continuous use.

Ingredients:

- Vitamin B₁, Vitamin B₆, Zinc Methionine, Glycine, Lysine, Sodium Butyrate, Pidotimod (PDMD), Xylo-Oligosaccharides (XOS), Taurine, Gamma Amino Butyric Acid (GABA) and other proprietary micro ingredients, including RH 40 Cremophor, Propylene Glycol, BHT, Deionized Water and excipients.



AMPHISEPTOL-PLUS

Liquid

*A Potent Livestock Disinfectant, Bactericidal, Fungicidal,
and Virucidal With Odor-Fighting Power*

Product Description:

- Amphi-SEPTOL Plus is a multi-purpose disinfectant effective against all bacteria, viruses, and fungi found in livestock.
- Amphi-SEPTOL Plus has been proven effective against the virus H₅N₁, responsible for avian flu.
- Amphi-SEPTOL Plus is a combination of quaternary ammonium and aldehyde, which give it a powerful bactericidal, fungicidal, and virucidal. This synergistic combination of active ingredients prevents the emergence of resistant strains.
- Amphi-SEPTOL Plus retains activity in hard water and in the presence of organic matter. In addition, Amphi-SEPTOL Plus has ingredients that provide a powerful minty and camphor scent to mask all odors.
- Ingredients

Benefits:

- Amphi-SEPTOL Plus is a potent livestock and poultry disinfectant with bactericidal, fungicidal, virucidal and odor-fighting power.
- Amphi-SEPTOL Plus is unique combination of quaternary ammoniums, glutaraldehyde and a specific selection of phytobiotics creating a broad spectrum antimicrobial activity covering a wide range of microorganisms.
- Amphi-SEPTOL Plus is significantly effective against all bacterial, fungal and viral targets even in the presence of interfering organic matters or hard water.

Directions for Use:

- Amphi-SEPTOL Plus is applied as a spray, with a concentration of 1 ml for 2 liters of water.
- Amphi-SEPTOL Plus is used in wheel dips and foot baths with a concentration of 1 liter / 100 liters of water.
- Amphi-SEPTOL Plus is applied by spraying, sprinkling or dipping after diluting with water at a range between 0.5% (1:200) to 2% (1:50) depend-

ing on the severity of the situation. Amphi-SEPTOL Plus is applied in the presence or absence of animals; ensuring to avoid any direct spray contact to animals or poultry.

- Spraying: 300 ml of diluted solution per square meter.
- Nebulization: 5 ml per cubic meter in a sealed location with the absence of animals or poultry: 5 ml per cubic meter for a period of 6 hours of contact.
- In Agro-feed Industry, a comprehensive rinsing with water is necessary following disinfection with Amphi-SEPTOL Plus.
- Basic Disinfection: Amphi-SEPTOL Plus' application ranges between 0.5% (1:200) to 1%. (1:100)
- Wheel Dips and Foot Baths: Amphi-SEPTOL Plus is used in at a concentration of 1 liter / 100 liters of water.

Ingredients:

- Quaternary Ammonium HCL,
Sodium Meta Bisulfate,
Glutaraldehyde 50%, Peppermint Oil,
Eucalyptus Oil, Camphor Oil,
vMenthol Crystals, and
other proprietary micro ingredients
including RH 40 Cremophor,
Propylene Glycol, BHT,
Deionized Water and excipients.



AMPHIMMUNE

Liquid

Nutritional Immune Support of Amino Acids, Vitamins, Organic Acids with Chelated Minerals Technology

Product Description:

- Amph-IMMUNE is a nutritional immune support formulated with "Chelated Minerals Technology" that ensures adequate absorption and bioavailability of basic elements required for maximum immune responses in both poultry and livestock.
- It combines essential amino acids bound to chelated minerals (trace elements) in addition to other basic factors including vitamins, organic acids and prebiotic beta-glucan.
- Amph-IMMUNE is a nutritional supplement that helps compensate the nutritional deficiency.
- Amph-IMMUNE is readily absorbed by the animals and birds through a unique balanced formulation utilizing chelated forms of amino acids and the highest grades of Vitamins, including vitamin C, Minerals and Trace Elements.
- Amph-IMMUNE helps boost the immune system by supplying essential Amino Acids to for protein necessary for the immune response.

Benefits:

- Amph-IMMUNE has multiple beneficial effects on poultry, livestock and pigs including:
 - 1- Enhanced humoral and cell mediated immune functions, thereby reducing morbidity and mortality
 - 2- Enhanced live performance
 - 3- Improved bird and animal health and meat quality characteristics
 - 4- Better performance of laying hen and egg shell quality
 - 5- Enhanced feed conversion efficiency of chicks
 - 6- Increased weight gain and feed intake
 - 7- Reduced mortality and leg abnormalities in toms
 - 8- Improved protein synthesis by increasing building blocks of protein
 - 9- Inhibited viral replication resulting in shortened course and duration of the disease and improved clinical outcomes
 - 10- Increased resistance to bacterial and parasitic infections
 - 11- Positive growth response, improving nutrient digestibility, performance and immunity in poultry when added to drinking water

12- Improved gut health in poultry due to healthy intestinal villi leading to better absorption of nutrients

13- Improved fertility and hatchability

14- Better carcass quality.

- Amph-IMMUNE can be used to guard against and help as an adjunctive cure in a wide range of infectious diseases in both poultry and livestock such as avian influenza, avian infectious bronchitis, avian laryngo-tracheitis viral disease, Newcastle viral disease, Foot- and-Mouth Disease, Classical Swine Fever, African Swine Fever, Sheep pox , Goat pox, Bluetongue and many others.

- Amph-IMMUNE can be used before and after vaccinations to promote the production of antibodies and maintain the animal's well-being.

- Amph-IMMUNE provides excellent support in stressful conditions such as long-distance transportation, high temperature, during symptoms of growth and development retardation, weakened resistance against disease and infections, and loss of appetite and weakness.

Directions for Use:

For oral administration.

- To be added to the broilers with the rate of 1 ml/ 1 liter of drinking water.

- To be added to the Layers with the rate of 2 ml/ 1 liter of drinking water for a period of 5 days.

Ingredients:

Each 1 Liter of Amph-IMMUNE Liquid contains:

- Chelated Minerals and Trace Elements:
Chelated Zinc-Glycine and Chelated Copper- Glycine.
- Amino Acids: Glycine Chelate, L-Lysine, L-Threonine, DL-Methionine, and L-Tryptophan
- Organic Acids: Ascorbic Acid (Vitamin C), Lactic Acid and Citric Acid.
- Prebiotic Dietary Fibers: Beta-Glucan
- Other Patented mix.



AMPHISPEAR

Liquid

*A Unique Blend of Natural Oils to Prevent and Alleviate
Respiratory Symptoms for Poultry and Livestock*

Product Description:

- Amphi-SPEAR is a mix of multiple active ingredients working in synergy to hinder the ability of pathogens to develop resistance.
- Amphi-SPEAR has ingredients that help loosen the mucus and get rid of phlegm and pulmonary irritation.
- Amphi-Spear's highly concentrated mix of essential oils works as a potent multi-purpose flavoring agent, as it improves the taste of feed, and as a digestive agent, as well, improving the performance and health of poultry and animals.
- Amphi-SPEAR possesses antioxidant action, stimulating natural defenses of animals. It is an effective substitute for all growth promoting antibiotics.
- Amphi-Spear, being formed of multiple natural essential oils, it provides a wide range of pharmacological beneficial actions for both poultry and livestock including anti- microbial, antioxidant, antiseptic, antispasmodic, growth promoter, antifungal, antiviral, anti-inflammatory, expectorant, antitussive, immunomodulatory actions and others.
- Amphi-SPEAR is a very safe natural product for all poultry and livestock.
- Amphi-SPEAR can be added to drinking water or sprayed.

Benefits:

- Amphi-SPEAR is a unique combination of natural oils and spirits known to have a great effect on improving respiratory symptoms associated with New Castel Disease, avian flu as well as all other viral, bacterial and fungal respiratory infections in both poultry and livestock.
- Amphi-SPEAR can be used as adjuvant in Avian influenza, Newcastle diseases, Infectious bronchitis, Infectious Laryngotracheitis, Avian metapneumovirus (AMPV) or Swollen head syndrome, Fowl cholera, Infectious coryza, Mycoplasmosis and Aspergillosis.
- The combination of Eucalyptus Oil, Menthol, Thymol, and Camphor Oil

and other ingredients included in Amphi-SPEAR works in tandem as antiviral and anti-bacterial agents. In addition, it helps recovery of symptoms due to its immune-modulating properties.

- Amphi-SPEAR also helps alleviate respiratory symptoms and improve ventilation of airways and breathing efficiency..

Directions for Use:

- General prevention:
Add to drinking water. Use 200 ml /1 liter of drinking water for 20 birds.
- Post-vaccination reactions and respiratory problems:
Add to drinking water. Use 200 ml /1 liter of drinking water for 20 birds twice daily for three days.
- Preventive aerial spray For 20 birds:
Spray 200 ml Amphi-SPEAR diluted in 1000 of water.
Use fine nozzle twice weekly or as needed.

Ingredients:

- Peppermint Oil
- Eucalyptus Oil
- Camphor Oil
- Menthol Crystals
- Saponin
- Thymol
- Carvacrol
- Acetylcysteine



AMPHITRIFLE

Liquid

Purified Blend of Organic Acids

Product Description:

- Amphi-TRIFLE helps stimulate the immune system and the atrophied reproductive organs. It also helps increase and improve metabolic activity and conception rates.
- Amphi-TRIFLE offsets and neutralizes all known mycotoxins. It also aids in the elevation of blood protein and antibody levels.
- Amphi-TRIFLE aids in the prevention of pathogenic gram-negative bacterial infection and helps improve overall production.
- Amphi-TRIFLE can be used as an alternative to antibiotics and growth-promoting medications.
- Amphi-TRIFLE helps maintain an optimal pH of the GI tract, aiding in inhibiting the breeding of pathogenic bacteria, prompting healthy epithelial cells of the gut wall, and strengthening ability and activity to combat harmful pathogens.
- Amphi-TRIFLE effectively helps in preventing and improving diarrhea through its action in maintaining the balance between gastrointestinal tract flora and antibiotics premixes, coccidiostate, and other feed additives.

Benefits:

- Amphi-TRIFLE helps in the prevention of the following: aflatoxicosis; pathogen population; multiple mycotoxins (T2, Citrinin, Zeorelenone, etc.); Ochratoxicosis; fungal contamination; stress on the liver; immune Stress; and ill effects of pesticide residue.
- Amphi-TRIFLE reduces pH of gut and feed. It also aids in inhibiting mold and bacteria.
- Amphi-TRIFLE improves performance and production.

Directions for Use:

- To be added to the poultry at the rate of 1 ml / 2 liters of drinking water for a period of three to seven days.

Ingredients:

- Benzoic acid
- Citric acid
- Acetic acid
- Tartaric acid
- Sorbic acid
- Formic acid
- Propionic acid
- Phosphoric acid
- Copper Penta Sulphate
- Other proprietary ingredients, including Beta Glucan and other patented mix.



AMPHITOXGONE

Liquid

Broad-spectrum Toxin Binder

Product Description:

- Amphi-TOXGONE helps offset and neutralize all known mycotoxins.
- Amphi-TOXGONE aids in the elevation of blood protein and antibody levels and stimulates the immune system.
- Amphi-TOXGONE also helps increase and improves metabolic activity and conception rates.
- Amphi-TOXGONE aids in the prevention of pathogenic gram-negative bacterial infection and helps improve overall production.
- Amphi-Toxgone's unique ingredients help in the process of toxin-binding and also aid in neutralizing the harmful effects of pathogens in drinking water. It works synergistically to aid the effects of antibiotics, premixes, coccidiostats, and any other feed additives.

Benefits:

- Amphi-TOXGONE acts as a powerful and universal toxin binder that helps in the prevention of Aflatoxicosis; multiple mycotoxicosis, Ochratoxicosis; and other toxins due to fungal contamination.
- Amphi-TOXGONE helps to prevent stress on the liver; immune stress; and ill effects of pesticide residue and pathogens in drinking water.
- Amphi-TOXGONE reduces pH of gut and feed to combat the growth of harmful pathogens, and it promotes the growth of normal gut flora.
- Amphi-TOXGONE also aids in the elevation of survival rates and growth, and improves performance and production.

Directions for Use:

For oral administration.

- To be added to the poultry at the rate of 5 ml / 10 liters of drinking water for a period of three to seven days.

Ingredients:

Each 1 Liter contains:

- Sorbic Acid
- Aspartic Acid
- Formic Acid
- Citric Acid
- Lactic Acid
- Malic Acid
- Tartaric Acid
- Ascorbic Acid
- Phosphoric Acid
- Potassium Citrate
- Calcium Lactate
- Disodium EDTA
- Copper Penta Sulphate
- In addition to other proprietary ingredients, including Mannan oligosaccharide, Beta Glucan, and other patented mix.



AFLAGIN

Liquid

*Maximum-Strength Anti-Toxin, Acidifier, Digestive Support,
and Growth Promoter*

Product Description:

- AFLAGIN is a balanced formula of an organic acid acidifier that works together to promote each other's action.
- AFLAGIN actions include:
 1. Increased body weight and daily gain.
 2. Higher productivity index
 3. Reduction of infection possibility
 4. Improvement of gastrointestinal tract functions
 5. Helping nutrient digestibility
 6. Boosting Immunity
 7. Improvement of egg production and quality
 8. Improvement of broilers' performance.

Benefits:

- AFLAGIN can be used to help improve the digestive process and feed conversion.
- AFLAGIN aids in the prevention of mycotoxicosis and intestinal pathogens.
- AFLAGIN is a potent weight-gain supplement and a highly effective growth promoter.
- AFLAGIN can also be used to help increase bile secretion and in maintaining healthy gall bladder and liver function.

Directions for Use:

For oral administration.

- To be added to broilers at the rate of 1 ml / 1 liter of drinking water for five days at the age of 28 days. To be added to the layers at the rate of 2 ml / 1 liter of drinking water for five days.

Ingredients:

- Citric Acid
- Propionic Acid
- Lactic Acid
- Benzoic Acid
- Phosphoric Acid
- Papain
- Acetic Acid
- Formic Acid
- Other proprietary ingredients, including:
artichoke extracts, Betaine Hydrochloride Mannan oligosaccharide,
Beta Glucan and other patented mix.



AMPHIMIN-T

Liquid

A Balanced Minerals & Trace Elements Solution

Product Description:

- Amphi-MIN-T is a highly concentrated liquid mineral and trace element solution.
- It provides mineral nutrients essential to fertility, reproduction, eggshell quality, bone formation, good functioning of the nervous system, fat and carbohydrate metabolism, and mobilization of energy, growth and resistance.
- Amphi-MIN-T supplies essential minerals and trace elements that are important in improving feed conversion and metabolic functions with its chelated zinc and cobalt.

Benefits:

- Amphi-MIN-T: Helps in reversing and overcoming "acute" stressful conditions accompanied with loss of minerals and trace elements.
- Amphi-MIN-T: Used as a supplement to compensate for "chronic" mineral deficiencies.
- Amphi-MIN-T: Supplies essential minerals and trace elements that are important for "healthy" for "prevention" of mineral deficiencies.

Directions for Use:

- To be added to the chicks at the rate of 1 ml / 1 liter of drinking water for five days during the second week of life.
- To be added to broilers at the rate of 1 ml / 1 liter of drinking water for five days at the age of 28 days.
- To be added to the egg-layers at the rate of 2 ml / 1 liter of drinking water for five days before the beginning of the egg-laying and production.
- Please add a suitable dose for cattle and sheep, if accepted

Ingredients:

Each 1 Liter contains:

- Phosphoric Acid, Cobalt Chloride, Magnesium Chloride, Sodium Chloride, Calcium Chloride, Manganese Chloride, Zinc Chloride, Copper Chloride, Ferrous Sulfate, and other proprietary micro-ingredients, including Deionized Water and excipients.



AMPHIVIT AD₃E

50/10/10 & 100/20/20

Liquid

High Concentration Water-Soluble Solution of Vitamins A, D₃ & E

Product Description:

- Vitamin A is involved in the process of formation and preservation of function of epithelial tissues and mucous membranes, is important for fertility and is essential for vision. Vitamin D₃ regulates and corrects calcium and phosphate metabolism in blood and plays an important role in the uptake of calcium and phosphate from the intestines.
- Especially in young, growing animals, Vitamin D₃ is essential for the normal development of skeleton and teeth.
- Vitamin E is as a fat-soluble intracellular antioxidant, involved in stabilizing unsaturated fatty acids, thereby preventing toxic lipo-peroxides formation.
- Furthermore, Vitamin E protects the oxygen-sensitive Vitamin A from oxidative destruction in this preparation.

Benefits:

- Is a well-balanced combination of Vitamin A, Vitamin D₃, and Vitamin E for poultry, calves, cattle, goats, sheep and swine as well as aquaculture fish and shrimps.
- Its basic benefits include:
 - 1- Prevention or treatment of Vitamin A, Vitamin D₃, and Vitamin E deficiencies with Sorbitol in farm animals.
 - 2- Prevention or treatment of stress (caused by vaccination, diseases, transport, high humidity, high temperatures or extreme temperature changes).
 - 3- Improvement of feed conversion.

Directions for Use:

For Oral Administration

- 1 ml / 10 liter drinking water for five to seven days.

Ingredients:

Each 1 Liter contains: A Patented Proprietary Mix of Vitamin A, Vitamin D₃ and Vitamin E.



AMPHITOSSGON

Liquid

Acidifier, Growth Promoter and Anti-Mycotoxin

Product Description:

AMPHITOSSGON Liquid is a balanced formula acting as a potent acidifier, digestive support, and anti-mycotoxin with growth prompting properties. It combines several organic acids, electrolytes and minerals, probiotic MOS, papain extract and beta glucan. All these ingredients act in a synergistic and complementary way to ensure best production performance and protection. It also increases villus height. Organic acids included in AMPHITOSSGON Liquid increase pancreatic enzyme secretion that leads to better digestion and protein utilization. Organic acids also enhance specific & non-specific immunity and improve layer and broilers performance. AMPHITOSSGON Liquid works throughout the digestive tract, starting from the stomach to the intestine, reducing the pH of the entire digestive tract, thus promoting a better utilization of the feed. AMPHITOSSGON Liquid, with its effect on decreasing the pH in the intestinal cavity, helps in creating a suitable environment to promote the growth of natural flora, and accordingly, disrupts the growth of pathogenic enterobacteria. AMPHITOSSGON Liquid also provides "Mannan-Oligosaccharide (MOS)" which is a prebiotic with antibacterial action preventing colonization of pathogenic bacteria. MOS has positive effect on all performance parameters of poultry (bodyweight gain, feed conversion ratio, egg weight, egg production, fertility, and hatchability). AMPHITOSSGON Liquid also contains "Papain extract" that improves production performance in broiler chickens by improving feed intake, body weight, FCR and carcass percentage. AMPHITOSSGON Liquid also contains "Beta Glucan" that helps maintaining intestinal integrity, enhances poultry immunity and helps as a growth promoter and antibiotic alternative. AMPHITOSSGON liquid aids in the prevention of pathogenic gram-negative bacterial infection and helps improve overall production. AMPHITOSSGON liquid helps offset and neutralize all known mycotoxins. AMPHITOSSGON liquid is characterized by unique ingredients that help in the process of toxin-binding and also aid in neutralizing the harmful effects of pathogens in drinking water. It works synergistically to aid the effects of antibiotics, premixes, coccidiostate, and any other feed additives.

Benefits:

AMPHITOSSGON liquid can be used in the prevention and combating mycotoxicoses due to all known mycotoxins including aflatoxicosis; multiple mycotoxicosis (T2, Citrinin, zeorelenone, etc.); Ochratoxicosis; fungal contamination; liver stress conditions; immune stress and deficiency conditions; ill effects of pesticide residue.

AMPHITOSSGON liquid helps to prevent stress on the liver; immune stress; and ill effects of pesticide residue and pathogens in drinking water.

AMPHITOSSGON liquid reduces pH of gut and feed to combat the growth of harmful pathogens, and it promotes the growth of normal gut flora.

AMPHITOSSGON liquid also aids in the elevation of survival rates and growth, and improves performance and production.

AMPHITOSSGON Liquid can be used as an appetizer

AMPHITOSSGON Liquid improves performance criteria of both laying hens as well as broilers including bodyweight gain, feed conversion ratio, egg weight, egg production, fertility, and hatchability.

AMPHITOSSGON Liquid can also be used to boost immunity during different microbial infections.

AMPHITOSSGON Liquid Alleviates effects of heat stress owing to organic acids and betaine anti-stress properties.

Directions for Use:

To be added to the poultry at the rate of 5 ml / 10 liters of drinking water for a period of three to seven days.

Ingredients:

Papain (From Carica Papaya Fruits Extract), Phosphorus (Phosphoric acid 75%), Citric acid 98%, Lactic acid 80%, Malic acid 99%, Tartaric acid 99%, Ascorbic acid 99%, Disodium EDTA 99%, Mannan Oligosaccharide 99% (From saccharomyces cerevisiae), Beta Glucan 98% (From saccharomyces cerevisiae), Aspartic acid 99%, Potassium (Potassium citrate 99%), Calcium (Calcium lactate 99 %), Formic acid 99%, Sorbic acid 99% and Distilled Water




AMPHIVITALL

Liquid

A Synergistic Mix of Vitamins, Minerals, Electrolytes, Trace Elements and Amino Acids with Nucleotides, β -Glucans, L-Carnitine and Taurine Serving as A Potent Weight Gain Factor, Growth-Promoter and Immune Booster

Product Description:

AMPHIVITALL liquid is a designed to be a potent and effective weight gain factor and growth promoter for poultry. AMPHIVITALL liquid, due to its unique combination of vitamins and amino acids, with nucleotides, taurine and carnitine, it is highly effective product, characterized by strong anabolic action. This guarantees an increase of all production parameters such as fast and intensive animal growth, acceleration and shortening of fattening period, maximum feed use (and feed usage limitation), and improvement of meat and milk quality. AMPHIVITALL liquid is characterized by its content of nucleotides which are the building block of protein and nucleic acids. Also, they are crucial for the body as a cellular energy source (ATP). Dietary nucleotide supplementation improves body weight, daily weight gain, feed conversion, serum concentration of IgG of broilers and increases villus height. AMPHIVITALL liquid is also fortified by L-carnitine. In poultry production, L-carnitine stimulates growth promotion and helps strengthening the immune system. AMPHIVITALL liquid contains also β -glucans known as effective antibiotic alternatives in poultry. β -Glucan supplementation have been shown to increase immune responses in poultry and shown to be beneficial in protection from mycotoxins. AMPHIVITALL liquid, owing to its taurine content, has many stress alleviations related functions such as antioxidant, membrane stabilization, anti-inflammatory, immunomodulation, detoxification and osmoregulation. Recently, it was found that taurine supplementation increased the expression of appetite gene in heat-stressed birds. AMPHIVITALL liquid provides adequate supply of all minerals and vitamins required for good poultry production. AMPHIVITALL liquid is also characterized by the presence of mannan-oligosaccharides (MOS), prebiotics originated from the yeast cell wall. MOS has an ability to bind the threadlike fimbriae on pathogenic bacteria preventing them from attaching to the gut wall, thereby averting their stabilization and the resulting colonization and multiplication, up to the disease level. AMPHIVITALL liquid contains a balanced Amino Acid Mix of different amino acids including glycine, lysine, methionine, threonine, tryptophan and others. Amino acids are recognized as anabolic factors by stimulating protein synthesis. Dietary amino acids are major determinants of the carcass components of broilers, as abdominal fat content and



breast meat yield are influenced by their levels. AMPHIVITALL liquid supplies adequate concentrations of long-chain fatty acids, linoleic and linoleic acids. The favorable effects of ω -3 PUFA on bone strength, bone mineral content and density, and semen quality have been confirmed

Benefits:

AMPHIVITALL liquid can be used to improve body weight, daily weight gain, and feed conversion and to increase serum concentration of IgG of broilers and increases villus height.

AMPHIVITALL liquid, owing to its L-carnitine content has a growth promotion effect. It is also valuable in strengthening the immune system with an antioxidant effects and helps improving semen quality.

AMPHIVITALL liquid can be used as an effective antibiotic alternative in poultry. Owing to its β -glucans content, it can be beneficial in protection from mycotoxins. AMPHIVITALL liquid, may be used to guard against cardiomyopathy, renal dysfunction, developmental abnormalities, and severe damage to retinal neurons. AMPHIVITALL liquid may be helpful in stress conditions since it has many stress alleviations related functions such as antioxidant, membrane stabilization, anti-inflammatory, immunomodulation, detoxification and osmoregulation. Also, thanks to taurine inclusion, it may be of value to increase the expression of appetite gene in heat-stressed birds.

AMPHIVITALL liquid helps to guard against minerals and vitamins deficiencies that can lead to several health problems and may severely affect the poultry production, causing economic losses to the farmers.

Directions for Use:

Administer at the rate of 1 ml/ 1 liter of drink water for poultry

Ingredients:

L-Carnitine (Carnitine Hydrochloride - 99%), Vitamin B12 (Cobalamin - 1%), Vitamin B6 (Pyridoxine Hydrochloride), Vitamin B1 (Thiamine Hydrochloride), Vitamin D3 (Cholecalciferol), Niacin (99%), Folic Acid, Biotin, Glycine (Amino Acetic Acid), Lysine (L- Lysine hydrochloride), Methionine (DL-Methionine), Threonine (L-Threonine), L-Carnitine (Carnitine Hydrochloride - 99%), Tryptophan (L-Tryptophan), Phosphorus (Phosphoric Acid 85%), Magnesium (Magnesium Chloride), Calcium (Calcium Chloride), Selenium (Sodium Selenite) and Distilled water



AMPHIHEPANIL

Liquid


A highly concentrated hepato-protective liquid for all forms of liver damage in poultry, farm animals and aquatic animals.

Product Description:

AMPHIHEPANIL liquid is a highly concentrated liquid especially formulated to provide most of the essential hepato-protective elements to guard against all forms of liver damage in poultry. AMPHIHEPANIL liquid contains Sorbitol which is beneficial as cholagogue, lipotropic agent and mild laxative. The main action of sorbitol is stimulation of bile salts concentration and secretion. AMPHIHEPANIL liquid provides adequate concentration of Methionine, the first limiting amino acid in broiler diets and a potential mediator of the immune response. It also supplies Choline Chloride which is referred to as a "lipotropic" factor due to its function acting on fat metabolism by hastening removal or decreasing deposition of fat in liver. AMPHIHEPANIL liquid is also characterized by its inclusion of Betaine that has been demonstrated to improve growth performance and antioxidant status of animals under various stress conditions and mycotoxicoeses. Betaine increases average daily gain and decreases feed conversion ratio of broilers. AMPHIHEPANIL liquid combines important synergistic components such as Methionine, choline and lysine which are universally recognized as the most limiting amino acids in broiler diets based on corn and soybean meal. They are commonly used in broiler feed as hepatoprotectives and performance enhancers. AMPHIHEPANIL liquid is also unique by its content of Artichoke which is known to lower cholesterol and increases bird resistance to stresses, including temperature stress. It is also known to improve the immune system, performance, feed conversion ratio, and weight gain. AMPHIHEPANIL liquid provides Boldo extract characterized by its antioxidant activity. AMPHIHEPANIL liquid contains Carnitine that can improve liver antioxidative capacity and reduces the mortality due to ascites. L-carnitine supplementation can significantly improve growth rate, food efficiency and body weight gain in broilers.

Benefits:

AMPHIHEPANIL liquid can be used for poultry in mycotoxicoeses to support liver function and guard against liver damage. AMPHIHEPANIL liquid reduces zearalenone residue in broilers fed mold-contaminated corn-based diet. It also guards against pathomorphology, hematology, and biochemistry changes caused by ochratoxin A.



AMPHIHEPANIL liquid may be important to improve growth performance, liver health, antioxidant status, and breast meat yield and quality. It is also helpful to improve weight gain, feed efficiency, egg production and quality.

AMPHIHEPANIL liquid is of value to improve digestion by stimulating the secretion of bile secretion. It is used for young chicks to improve the digestibility of dietary fat especially that of saturated fatty acids as the young chicken needs choline more due to inability to synthesize at sufficient rate.

AMPHIHEPANIL liquid may be used as a lipotropic agent to guard against ascites syndrome in chicken.

AMPHIHEPANIL liquid may be valuable to mitigate the osmotic stress induced by diarrhoea and coccidiosis in animals. It is considered as an antioxidant agent that help alleviate oxidative damage in animals under various stress conditions.

Directions for Use:

Administer at the rate of 1 ml/ 1 liter of drink water for poultry

Ingredients:

DL- Carnitine, DL-Methionine, L- Lysine HCl 98 %, Choline (As Choline Chloride 70 %), Betaine (As Betaine Hydrochloride), Silymarin (From Silybum Marianum Extract), Cynarin (From Artichoke Extracts), Sorbitol and Distilled water



AMPHILECTIN

Liquid

*Powerful growth promoter and immune-stimulant agent
for poultry*

Product Description:

AMPHILECTIN liquid is specially designed liquid acting as a powerful growth promoter and immune-stimulant agent for poultry.

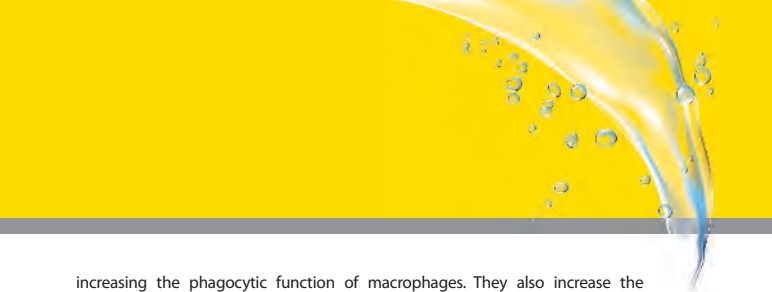
AMPHILECTIN liquid contains mushroom Lectin which has recently gained significant attention in medical research because of its immune-enhancing effects and their demonstrated potential in promoting health. Studies demonstrate that lectin can be an effective growth promoting and immunostimulating agent in poultry during coccidiosis. It is known that supplementation of mushroom in the poultry diet results in enhancement of resistance to *Eimeria tenella* probably by enhancing both cellular and humoral immune responses against *E. tenella* in chickens. Several studies demonstrate the ability of mushrooms to influence body weight of broiler chickens and show an immune enhancement via the bursa of Fabricius.

AMPHILECTIN liquid also includes *Yucca Schidigera* that is well-known with its important role to reduce ammonia gas emission from broiler litter and increase the birds' performance and improve production and carcass characteristics.

Yucca Schidigera is also known by its positive effect on feed conversion ratio (FCR) in poultry. It is reported that the efficiency of feed utilization is significantly better with addition of *Yucca* to poultry feed. The broilers exposed to the low concentration of ammonia showed the highest feed efficiency. Also, carcass characteristics (eviscerated weight percentage, breast meat and thigh yield) were significantly higher in *Yucca* treated birds.

AMPHILECTIN liquid is characterized by its inclusion of nucleotide as one of its essential components. Nucleotide supplementation is very important in broiler industry especially for growing broilers allowing much faster growth and enabling broiler chick to reach marketing weight at earlier age as a result of early and rapid development of intestinal tract and mature villi. Nucleotides act by increasing villi length, therefore, leading to increased surface area of absorption which results in improved digestion and absorption of nutrients. Dietary nucleotide supplementation results in improvement in body weight gain and FCR.

AMPHILECTIN liquid contains also, Beta Glucan (From *Saccharomyces Cerevisiae* cell wall extract). β -Glucan supplementation have been shown to increase immune responses in poultry by increasing the production of new immunocytes as well as



increasing the phagocytic function of macrophages. They also increase the phagocytic, bactericidal killing and oxidative burst of heterophils in broiler chicks. β -Glucan has also been shown to enhance immune response by altering the cytokine profiles of chickens. β -Glucans, therefore, may provide a tool for producers trying to reduce or eliminate the use of antibiotics in poultry diets. Supplementation with β -glucans has also been shown to be beneficial in protection from mycotoxins. Beta glucan administration results in reduction in the ceca of hens that can impact levels of Salmonella Enteritidis shed to the environment and thus reduce the potential of Salmonella Enteritidis contamination of the eggshell. Supplementation of β -glucan to broiler diet improves the survival rate and feed conversion rate of broilers. Therefore, β -glucan can be a potential alternative to antibiotics to improve the survival and performance of broilers.

AMPHILECTIN liquid also provides adequate concentration of prebiotics represented by xylooligosaccharide (XOS). Prebiotics may have beneficial effects on the animal's physiology by selectively stimulating beneficial microbiota in the digestion system.

Benefits:

AMPHILECTIN liquid can be used as a feed additive to enhance growth of poultry, especially young chicks during the first three weeks of their age.

AMPHILECTIN liquid may be used as an alternative to antibiotics to improve the survival and performance of broilers.

AMPHILECTIN liquid is helpful to guard against, and as adjuvant in treatment of, coccidiosis.

AMPHILECTIN liquid may be of value to achieve a faster and stronger antibody response to routine vaccines in chickens.

AMPHILECTIN liquid may be used to improve eggshell quality and reduce the potential of Salmonella Enteritidis contamination of the eggshell.

AMPHILECTIN liquid can be used to maintain maximum growth performance when birds are reared under environmental stress conditions.

Ingredients:

Mushroom Lentin (Agaricus Bisporus Extract 2%), Xylitol (E967), Yucca Schidigera Extract, Beta Glucan (Saccharomyces Cerevisiae cell wall extract), Xylooligosaccharides, Sodium Chloride, Sorbitol, Propylene Glycol, Nucleotide, Glycine, Selenium, Zinc Chelate and Deionized water add to 1 Liter



AMPHIMINERAL-D₃


Liquid

A balanced combination of vitamin D₃, phosphorus and calcium in addition to other elements required for healthy bone development and guarding against skeletal and leg problems in broiler chicken and other farm animals and to improve the growth performance.

Product Description:

AMPHIMINERAL D₃ liquid is specially designed to supply all required elements for bone health and development. Vitamin D₃ (Cholecalciferol) is the characteristic component that is essential for utilization of all other ingredients. Vitamin D₃ helps maintaining the physical integrity of structural bone acting on skeleton cortical/trabecular bone. It also helps maintaining adequate mobile Ca pool for eggshell formation acting on medullary bone. Vitamin D₃ guards against osteoporosis and fractures. It also guards against common keel bone fractures during the laying period. AMPHIMINERAL D₃ liquid provides the bioactive form of vitamin D₃ (1,25(OH)₂D₃) which is a key player in Ca-homeostasis. It is needed to increase Ca absorption from the intestinal tract and Ca mobilization from bone during eggshell formation and to restore it after eggshell formation is finished. Decreased levels of 1,25(OH)₂D₃ may contribute to growth plate abnormalities such as tibial dyschondroplasia and rickets. As the basis is in the vitamin D₃ metabolism, it is a better to increase 1,25(OH)₂D₃ levels rather than dietary Ca to improve Ca homeostasis in ageing laying hens. AMPHIMINERAL D₃ liquid is an essential source of calcium and phosphorus for broilers and young chicks. The absolute amounts of calcium and phosphorus are important for optimal growth and bone ash. AMPHIMINERAL D₃ liquid provides "trace minerals" including manganese (Mn), copper (Cu), and zinc (Zn) essential to avoid deficiencies that cause disturbances in metabolic processes such as loss of appetite, lower performance, impaired immune system, and reproductive disorders. Trace minerals influence bone development, feathering, growth, and appetite.

AMPHIMINERAL D₃ liquid provides optimal magnesium concentration for growing chicks. Mg is a key dietary element and it is reported to be indispensable for animal growth and survival. Mg deficiency in growing poultry is characterized by poor growth and feathering, decreased muscle tone, squatting, convulsive attacks, coma, and death; in laying hens, symptoms include reduced egg production, decreased feed consumption, nervous tremors, and seizures. Its actions are closely linked to calcium and phosphorus,



making the achievement of the right proportion of these elements in diets an important issue in poultry nutrition.

Benefits:

AMPHIMINERAL D₃ liquid may be essential for healthy bone development and to guard against nutritional skeletal disorders as rickets, osteomalacia and caged layer fatigue

AMPHIMINERAL D₃ liquid may be of value to avoid leg problems in broiler chicken.

AMPHIMINERAL D₃ liquid can be helpful to guard against osteoporosis and fractures in laying hens. It is helpful improve vascular invasion of bones in chickens and therefore, guard against tibial dyschondroplasia and rickets. It also may be used to prevent keel bone damage (KBD) in laying hens that compromises bird welfare and has a negative impact on production. It may be used in aged laying hens to reduce incidence of bone fractures.

AMPHIMINERAL D₃ liquid may be used in cases of increased the demand for proper skeletal Ca stores.

Directions for Use:

Administer at the rate of 1 ml/ 1 liter of drink water for poultry

Ingredients:

Vitamin D₃ (Cholecalciferol), Phosphorus (Phosphoric Acid 97%), Calcium (Calcium Chloride 98%), Magnesium (Magnesium Chloride 95%), Sodium (Sodium Carbonate 98%), Iron (Ferrous Chloride 98%), Manganese (Manganese Chloride 98%), Copper (Copper Carbonate 98%), Zinc (Zinc Acetate) and Distilled water



AMPHIOMEGA

Liquid

Feed additive mix of minerals, organic and fatty acids for poultry during heat stress conditions

Product Description:

AMPHIOMEGA liquid is a feed additive mix of minerals for poultry during heat stress conditions. Also it is an essential source of omega-3 fatty acids required for bone strength, bone mineral content and density in poultry. AMPHIOMEGA liquid is a nutritional management tool for heat stress, fulfilling the mineral requirement during heat stress for the efficient performance of the poultry. The requirement of most of the minerals are not fulfilled during heat stress conditions due to the restricted feed intake hence supplementation of minerals like zinc, copper, sodium, potassium, magnesium, selenium, manganese and iodine is necessary. These minerals help to sustain the production in animals, improve nutrient utilization and at the same time effectively neutralize the oxidant stress and enhance the compromised immune system of heat stressed birds. AMPHIOMEGA liquid contains low limit of citric acid that has been reported to decrease colonization of pathogens and limit their production of toxic metabolites, improve availability of protein, Ca, P, Mg and Zn as well as serve as a substrate in intermediary metabolism. It also enhances specific immunity against new castle disease in vaccinated broilers. AMPHIOMEGA liquid supplies adequate concentrations of long-chain fatty acids, linoleic and linoleic acids. Therefore, it is considered an important source for omega-3 fatty acids essential for bone strength, bone mineral content and density in poultry. The favorable effects of ω -3 PUFA on bone strength and bone mineral content and density have been confirmed.


Benefits:

AMPHIOMEGA liquid is helpful to prevent and correct electrolyte disturbances that are possible to occur with different stressful conditions in poultry such as: heat stress, over crowdedness, post-vaccination, viral infections, rapid growth, bird's fatigue, transportation, during and after molting, etc.

AMPHIOMEGA liquid is designed to help:

Limit the reduction in performance during high temperatures in the final few days of the production period.

Reduce the physiological stress load imposed on meat chickens during transport and lairage, especially during high summer temperatures.



Limit the rate of dehydration of meat chickens during transport and increase processed carcass weight by maintaining intercellular and intracellular muscle water content.

Improve carcass quality by limiting the effects of stress on muscle pH and water loss that occurs because of high temperatures before and during transport to processing.

AMPHIOMEGA liquid is an important source for omega-3 fatty acids essential for bone strength, bone mineral content and density in poultry.

AMPHIOMEGA liquid can be used as an appetizer for heat-stressed birds.

AMPHIOMEGA liquid is valuable in prevention and correction of "respiratory alkalosis" liable to occur in stress conditions especially heat stress.

AMPHIOMEGA liquid is of value in stress conditions for:

Lowering all detrimental effects in poultry resulting from hyperthermia

Reducing overall mortality in poultry during heat stress

Improving feed intake and appetite in both poultry

Improving performance in poultry

Improving egg production and egg size in laying hens

Improving egg shell quality and preventing egg shell

thing of heat stress in laying hens

Improving muscle content and weigh gain in broilers

Directions for Use:

Administer at the rate of 1 ml/ 1 liter of drink water for poultry

Ingredients:

Magnesium (Magnesium Sulphate 98%), Sodium (Sodium Chloride 98%), Potassium (Potassium Chloride 98%), Citric Acid 98%, linolenic acid, linoleic acid, Zinc (Zinc Acetate 98%), Iodine (Potassium Iodide 98%), Selenium (Sodium Selenite 5H₂O), Copper (Copper Carbonate 98%), Manganese (Manganese Chloride 98%) and Distilled water



AMPHIVENT

Liquid

A unique blend of natural oils, mucolytics, organic acids and antioxidants to prevent and alleviate respiratory symptoms in poultry and livestock

Product Description:

AMPHIVENT liquid combines all available respiratory supportive ingredients required and helpful during respiratory poultry diseases such as respiratory infections in poultry like Chronic Respiratory Disease (CRD), Complex chronic respiratory disease (CCRD), Infectious Coryza & Fowl Cholera. AMPHIVENT liquid provides mucolytic and expectorant ingredients including Guaifenesin, N Acetyl cysteine and Bromhexine that help loosen the mucus and get rid of phlegm and pulmonary irritation. AMPHIVENT liquid combines eucalyptus, menthol, peppermint, carvacrol and thymol and other ingredients working in tandem as antiviral and anti-bacterial agents. In addition, it helps recovery of symptoms due to its immune-modulating properties. AMPHIVENT liquid is highly concentrated mix of essential oils works as a potent multi-purpose flavoring agent, as it improves the taste of feed, and as a digestive agent, as well, improving the performance and health of poultry and animals. The selected beneficial essential oils that act synergistically possessing a wide range of biological activities, including antibacterial, antiviral, antioxidant, anti-inflammatory, antiseptic, antispasmodic, expectorant, antitussive, immunomodulatory actions and others. AMPHIVENT liquid, in meat type chickens, can promote growth and influence feed utilization. AMPHIVENT liquid, owing to its essential oils content, can affect the behavior of layers and influence egg composition, eggshell thickness, and the sensory quality of eggs. AMPHIVENT liquid possesses antioxidant action, stimulating natural defenses of animals. It is an effective substitute for all growth promoting antibiotics.

Benefits:

AMPHIVENT liquid is designed to be helpful as an adjuvant in respiratory poultry diseases such as Chronic Respiratory Disease (CRD), Complex chronic respiratory disease (CCRD), Infectious Coryza & Fowl Cholera.

Amphi- VENT liquid may be of great value in improving respiratory symptoms associated with Newcastle Disease, avian flu as well as all other viral, bacterial and fungal respiratory infections in both poultry and livestock.

Amphi- VENT liquid can be used as adjuvant in avian influenza, Infectious

bronchitis, Infectious Laryngotracheitis, Avian metapneumovirus (AMPV) or Swollen head syndrome, Mycoplasmosis and Aspergillosis.

AMPHIVENT liquid also helps improve ventilation of airways and breathing efficiency.

Directions for Use:

Administer at the rate of 1 ml/ 1 liter of drink water for poultry

Ingredients:

Eucalyptus Oil, Acetic Acid 98 %, Formic Acid 98 %, Glucose, Menthol Crystals, Peppermint Oil, Carvacrol (Oregano Oil), Thymol (Thyme Oil), Tween 80, BHT (Antioxidant) and Distilled Water.





AMPHARMA

The Ampharma logo, a red stylized four-pointed star, is positioned behind the company name. Below the logo, there is a visual representation of three different powder products: a yellow powder on the left, a red powder on the right, and a white powder with blue granules in the foreground. A semi-circular orange object is partially visible behind the white powder.

***B. PULTRY & LIVESTOCK
POWDER PRODUCTS***

AMPHIVIT-MAX

Powder

Synergistic High-Concentration Anabolic Mix of Vitamins and Amino Acids, Potent Weight Gain Factor and Growth-Promoter

Product Description:

- Amphi-VIT MAX is a specialty, new generation amino acids and vitamin preparation indicated for all animal species, especially in big-scale animal breeding.
- Amphi-VIT MAX, due to its unique combination of vitamins and amino acids, with taurine and carnitine, it is highly effective product, characterized by strong anabolic action has been created. This guarantees increase of all production parameters such as: fast and intensive animal growth, acceleration and shortening of fattening period, maximum feed use (and feed usage limitation), and improvement of meat and milk quality.
- Amphi-VIT MAX ensures proper metabolism of fatty acids and amino acids, satisfactory energy production from ketone bodies, regulation of ammonia concentration in blood, stimulation of immunological system, respiratory function, and active transportation of ATP (Adenosine Triphosphate) at cell level.
- Amphi-VIT MAX composition greatly influences proper functioning of all organisms' systems, especially neuro-hormonal, digestive, cardiovascular and reproductive systems.
- Carnitine plays a decisive role in organisms' efficiency, muscle strength and activity of cardiac muscle. Combined with amino acids, it facilitates metabolism of the entire organism and neutralizes unfavorable influences of various stress factors.
- Amphi-VIT MAX helps to keep metabolic balance in liver, kidneys, and heart, hindering fat atrophy processes in these organs. It also activates digestion through increase in gastric juices and pancreas enzyme production. The correct concentration of the preparation's components facilitates Amphi-VIT MAX absorption from the digestive tract. Its concurrent application with chemotherapeutical regimens in feed shortens the animal's treatment time.

Benefits:

- Amphi-VIT MAX is a designed to be a potent and effective weight gain factor and growth promoter for ruminants, swine and poultry. This is based upon its carefully selected pharmaceutical groups including a wide range of vitamins and amino acids required for adequate muscle growth and metabolism in addition to carnitine as an essential factor for muscle energy, taurine for maintenance of normal pregnancy and fetal development and integrity of immune system in large animals and reduction of Sudden Death Syndrome in broilers. Also, Amphi-VIT MAX contains essential minerals for proper metabolic requirements. All these ingredients are formulated with colloidal silica



as an anti-caking agent and physical pesticidal to ensure maximum safety in different storage conditions.

- Amphi-VIT MAX helps to maximize meat, milk and egg production in livestock and different poultry species.
- Amphi-VIT MAX helps to boost immunity and reduce both morbidity and mortality among ruminants, swine and poultry.
- Amphi-VIT MAX helps to guard against poultry and livestock industrial risks and maximizes investment outcomes.
- Amphi-VIT MAX is used to guard against vitamin deficiency diseases and their manifestations and to help treatment of such conditions and to reduce their related mortality.

Directions for Use:

- Administer at the rate of 1 g / 2 liters of drinking water or 1 gm / 2 Kg of feed for the first seven days of the animal's life, then in three to four weeks of life for six days.

Ingredients:

1- Vitamins:

- | | |
|---|--|
| 1- Biotin (vitamin H or vitamin B ₇) | 2- Vitamin A |
| 3- Vitamin B ₁ (thiamin) | 4- Vitamin B ₂ (riboflavin) |
| 5- Nicotinic acid (Niacin or vitamin B ₃) | 6- Vitamin B ₅ (Pantothenic acid) |
| 7- Vitamin B ₆ (pyridoxine) | 8- Vitamin B ₁₂ (cobalamin) |
| 9- Vitamin E | 10- Vitamin D ₃ (cholecalciferol) |

2- Electrolytes and Minerals:

- 1- Magnesium Gluconate
- 2- Calcium Acetate

3- Amino Acids:

- | | |
|------------------|------------------|
| 1- Cystine | 2- Phenylalanine |
| 3- Glycine | 4- Histidine |
| 5- Isoleucine | 6- Aspartic acid |
| 7- Glutamic acid | 8- Leucine |
| 9- Lysine | 10- Methionine |
| 11- Serine | 12- Threonine |
| 13- L-tryptophan | 14- Tyrosine |
| 15- Valine | |

4- L-Carnitine

5- Taurine

6- Colloidal Silica



AMPHIVIT-SEL

Powder

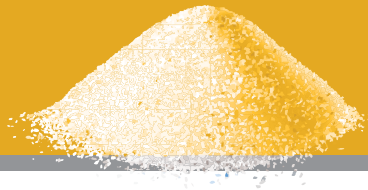
*Synergistic Combination of Vitamin E and Selenium for
Prevention of Oxidative Stress-related Disorders*

Product Description:

- Amphi-VIT SEL is a synergistic compound of both Vitamin E and Selenium. Vitamin E and Selenium are interrelated and function together as part of a multi-component vitamin trace elements supplement. Vitamin E and Selenium support and protect each other for maximum efficacy and guaranteed health benefits. Optimum levels of Vitamin E and Selenium help support muscular functions and boost the animal's immune response.
- Vitamin E is a fat-soluble intracellular antioxidant, involved in stabilizing unsaturated fatty acids. The main antioxidant function is preventing formation of toxic free radicals and oxidation of the unsaturated fatty acids in the body.
- These free radicals can be formed in periods of disease or stress in the body. Selenium is an essential nutrient for animals. Selenium is a component of the enzyme glutathione peroxidase, which plays an important role in protection of cells by destroying oxidizing agents like free radicals and oxidized unsaturated fatty acids.

Benefits:

- Amphi-VIT SEL effective to guard against oxidative stress-related disorders in livestock, swine and poultry.
- Amphi-VIT SEL can be used to prevent oxidative stress during the transition period in dairy cows which is increased in late pregnancy and continue to be higher after parturition.
- Amphi-VIT SEL is effective to guard against mastitis in dairy cows and cattle.
- Amphi-VIT SEL can be used to prevent both exudative diathesis and nutritional muscular dystrophy in calves, Lambs and chicks.
- Amphi-VIT SEL is helpful in prevention of Mulberry Heart Disease (MHD) in swine.



- Amphi-VIT SEL is of value in prevention of iron-intoxication after administration of iron to piglets.
- Amphi-VIT SEL can be used to prevent and help cure of swine dysentery and post-weaning diarrhoea in Neonatal Pigs.
- Amphi-VIT SEL can be used to improve swine reproductive performance
- Amphi-VIT SEL can be used in Vitamin E deficiencies (like encephalomalacia, muscular dystrophy, exudative diathesis, decreased hatchability in eggs, and infertility problems) in calves, cattle, goats, poultry, sheep, and swine.

Directions for Use:

For oral administration as a source of vitamin E and Selenium.

- Poultry and Swine: 1 kg / 3000 liters of drinking water for three to five days.
- Chicks (more 21 days): 1 kg / 2000 liters of drinking water for three to five days.
- Calves, Goats, and Sheep: 1 gm per 60 Kg of body weight for three to five days.
- Cattle: 1 gm per 100 Kg of body weight for three to five days.

Ingredients:

Each 1 kg contains:

- Vitamin E
(as DL-alpha tocopherol acetate) 50%
- Selenium (Sodium Selenite) 43.8%
- Colloidal Silica (Anti Caking).



AMPHIELEC-PWR

Powder

A Water-soluble Source of Electrolytes and Chelated Minerals for Poultry

Product Description:

- Amphi-ELEC PWR is a water-soluble electrolyte concentrate that is easily used with drinking water for poultry.
- Amphi-ELEC PWR is a balanced mix of electrolytes that helps in both the prevention of dehydration and in reversing its effects in poultry.
- Amphi-ELEC PWR is especially designed to prevent and correct disturbance of acid-base balance that results from all stressful conditions and is responsible for high mortality rate in such conditions.
- Amphi-ELEC PWR is characterized by combining trace elements in chelated form with amino acids in a "Proper" and "Accurately Calculated Formula" containing "adequate concentrations" of all required elements in a proper "ratio".
- Amphi-ELEC PWR is characterized by combining trace elements in chelated form with amino acids to ensure "maximum bioavailability" for better utilization and consequently rapid and maintained effect.
- Amphi-Elec PWR, with its content of essential trace elements in chelated form and essential electrolytes aids in maintaining and / or restoring the physiological levels of electrolytes needed by animal cells to perform their normal biological functions.
- Amphi-ELEC PWR contains essential chelated amino acids that are necessary for a healthy immune system by aiding in the processes of activation of lymphocytes, NK cells, and macrophages. It also helps in the prevention of amino acids deficiency in birds, and accordingly, helps promote a healthy immune system that fights infectious disease through the production of antibodies, cytokines, and other cytotoxic substances.

Benefits:

- Amphi-ELEC PWR is helpful to prevent and correct electrolyte disturbances



that are possible to occur with different stressful conditions in poultry such as: heat stress, over crowdedness, post-vaccination, viral infections, rapid growth, bird's fatigue, transportation, during and after molting. etc

- Amphi-ELEC PWR is valuable in prevention and correction of "respiratory alkalosis" liable to occur in stress conditions especially heat stress.
- Amphi-ELEC PWR is a useful aid in relieving stress and a bird's fatigue after vaccination.
- Amphi-ELEC PWR helps in all immunosuppressive diseases such as: Gumboro, reticulo-endotheliosis, reo and other infectious diseases.
- Amphi-ELEC PWR also aids in cases of anemia, avian leukosis, mycotoxycosis, and other various acute and pre-acute diseases, such as avian flu.
- Amphi-ELEC PWR is a good source of minerals that help during the peak of egg production.

Directions for Use:

- Add 500 - 700 grams of Amphi-ELEC PWR for each 1,000 liters of drinking water for five days.

Ingredients:

CHELATED TRACE MINERALS

- Copper Chelate
- Zinc Chelate
- Manganese Chelate

ELECTROLYTES

- Potassium Bicarbonate
- Sodium Bicarbonate
- Sodium Diacetate
- Sodium Acetate
- Calcium Acetate

ESSENTIAL CHELATING AMINO ACIDS

- Patented amino acids mix with glycine as a chelating agent.



AMPHITOXPRO

Powder

Broad Spectrum Anti-toxin for Poultry

Product Description:

- Amphi-TOX PRO contains all the essential components for "Ultimate Toxin Prevention Program".
- Amphi-TOX PRO, not only inhibits mold & bind toxins, it also enhances functions of liver, neutralizes pesticide residues, flushes out salmonella, and improves performance & immunity.
- The unique balanced formula contains Hydrated Sodium Calcium Aluminosilicate, which is a very potent sorbent that reduces the toxicity of aflatoxins (AF) or T-2 toxin. HSCAS improves the performance of the chicks and animals by reducing the toxic effects and increasing body weight gain by 40% - 50% through increasing efficiency of feed utilization.
- Amphi-TOX PRO contains A balanced formula of organic acids that works synergistically in improving the digestive process with its effect as antibacterial and by reducing the pH of the entire digestive tract thus promoting a better utilization of the feed and inhibits the growth of E. coli and Salmonella and other pathogens.
- Mannan-oligosaccharide, MOS, is shown to improve gastrointestinal health as well as overall health, thus improving wellbeing, energy levels and performance of the birds and animals. MOS through the binding to mannose reduces the risk of pathogen colonization in the intestinal tract and helps improve feed conversion, converting feed more efficiently into body tissue and increase body weight.
- Amphi-TOX PRO contains Activated Charcoal which is a very potent ingredient with its small particles and its highly porous surface works by binding the toxin to prevent stomach and intestinal absorption. Activated Charcoal also interrupts the entero-hepatic and entero-enteric circulation of some drugs/toxins and their metabolites.
- Amphi-TOX PRO contains two of the most important lipo-tropic agents; Betaine which is a powerful lipotropic agent that increases gastric acid and promotes the export of fat from the liver. Betaine is necessary for the



maintenance of a healthy liver and essential for fat metabolism by burning the exported fat for additional energy. Inositol, is a potent lipotropic agent which plays a critical role in defending against toxic compounds as it assists in the detoxification reactions in the liver.

- Amphi-TOX PRO contains oxine-copper, which is recognized as a very potent antifungal agent.

Benefits:

- Guards against aflatoxicosis.
- Guards against caking of feed.
- Reduces PH of gut and feed.
- Helps mold inhibition.
- Guards against pathogen population.
- Guards against multiple mycotoxigenesis.
- Guards against ochratoxinosis in poultry.
- Guards against fungal contamination.
- Assists in preventing stress on liver.
- Guards against immune stress.
- Alleviates the ill effects of pesticide residue.

Directions for Use:

- Administer at the rate of 1 Kilogram/ton of feed

Ingredients:

Each 1 Kilogram contains:

- Hydrated Sodium Calcium Aluminosilicate (HSCAS).
- Buffered Organic Acids Mix Containing: Citric Acid, Fumaric Acid and Formic Acid (Calcium Formate).
- Mannan-oligosaccharide (MOS)
- Activated Charcoal.
- Oxine Copper.
- Lipotropic agents Mix Containing: Betaine and Inositol.
- Other proprietary micro ingredients and patented mix.



AMPHIPRO-STRESS

Powder

A Unique Anti-stress Blend of Vitamins, Electrolytes, Amino Acids and Probiotics

Product Description:

- Amphi-PRO STRESS is a unique anti-stress blend of vitamins, electrolytes, amino acids, and probiotics. It, therefore, combines all nutritional elements required to guard against detrimental effects of heat stress in both poultry and livestock and helps reduce mortality rate related to stress conditions.

- Amphi-PRO STRESS is especially formulated to combat the harmful effects of different stressful conditions such as excessive heat, high humidity, overcrowding and post-vaccination states. This protective effect is mediated by its ingredients that are specially chosen for this purpose. These are:

- 1- Electrolytes: Guard against fatal respiratory alkalosis especially in poultry and improve water intake

- 2- Amino Acids: Boost immune function and immunoglobulin synthesis and improve muscle building, weight gain in addition to egg and milk production.

- 3- Vitamins: Improve performance and immune function and modulate inflammatory response to heat exposure.

- 4- Probiotics: Enrich the microbiota diversity in the jejunum and caecum of birds, restoring the microbial balance and reverse impaired villus-crypt structure of heat-stressed birds

- Amphi-PRO STRESS is proven and tested to help fast recovery of sick animals and birds as a result of disease. Its immediate replacement of electrolytes helps poultry and animals in avoiding and combating stress.

- Amphi-PRO STRESS aids in enhancing the physical fitness of poultry and animals.

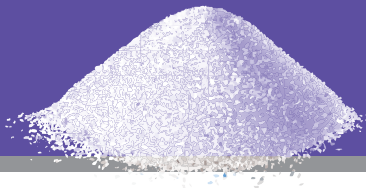
- Amphi-PRO STRESS helps in the process of absorption of antibiotics and other drugs by correcting the electrolyte imbalance resulting from diseases.

Benefits:

- Amphi-PRO STRESS is used as a supportive supplement to help alleviate the effects of stress for poultry and animals as a result of dehydration, diarrhea, infectious disease, post-vaccination stress, infectious gastroenteritis, fatigue and stress due to heat, cold and overcrowding, decreased feeding and growth retardation.

- Amphi-PRO STRESS is used in stress conditions for:

- 1- Lowering all detrimental effects in both poultry and livestock resulting from hyperthermia



- 2- Reducing overall mortality in poultry and livestock during heat stress
- 3- Improving immunity state and guarding against infection in poultry and livestock
- 4- Improving feed intake and appetite in both poultry and livestock
- 5- Improving performance in poultry and livestock
- 6- Improving weight gain and muscle built in beef cattle
- 7- Improving milk production and increasing fat and protein content of milk in dairy cows
- 8- Improving egg production and egg size in laying hens
- 9- Improving egg shell quality and preventing egg shell thing of heat stress in laying hens
- 10- Improving muscle content and weigh gain in broilers

Directions for Use:

- Poultry and Swine: 1 kg / 3000 liters o f drinking water for three to five days.
- Cattle: 1 gm per 100 Kg of body weight for three to five days.
- Chicks (more than 21 days): 1 kg / 2000 liters of drinking water for three to five days.
- Calves, Goats and Sheep: 1 gm per 60 Kg of body weight for three to five days.

Ingredients:

• **Electrolytes:**

Potassium Bicarbonate, Sodium Chloride,
Calcium Acetate and Sodium Acetate

• **Vitamins:**

Vitamin A, Vitamin D₃, Vitamin E, Vitamin K,
Thiamin, Pyridoxine, Folic Acid and Ascorbic Acid

• **Mixed Synthetic Amino Acids**

L-Lysine HCl, L- Threonine and Glycine

• **Probiotics:**

Lactic Acid Bacteria Mix containing
5 billion CFU of Lactobacillus Acidophilus,
Lactobacillus Planterum and
Bifidobacterium Bifidum.



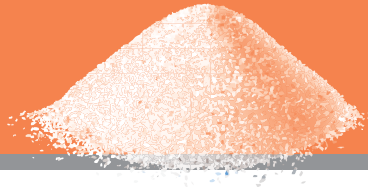
AMPHIBACT

Powder

Concentrated Source of Probiotics and Enzymes

Product Description:

- Amphi-BACT is a concentrated water-soluble blend of a wide range of probiotic bacterial strains and digestive enzymes for use in poultry feed or water.
- Amphi-BACT is helpful to maintain optimal gut health which is the essential factor for productive performance of the birds and general health. This is achieved by providing a "healthy" intestinal microbiota.
- Amphi-BACT contains a unique and balanced mix of selected bacterial stains including *Lactobacillus Bifido*, *Lactobacillus Plantrum*, and *Bifido bacterium bifidum* in a high concentration that adds to the count and assists in maintaining a healthy intestinal micro flora which helps maximize feed digestion and utilization and prevent digestive upsets.
- Amphi-BACT in addition to selected bacterial strains, it contains selected yeast strains represented by *Aspergillus niger* fermentation extract which is known to improve blood parameters in chicks and also to improve the resistance to ascites among birds reared under hypoxic conditions.
- Amphi-BACT formula also contains a unique balanced combination of the digestive enzymes amylase; cellulase, beta-glucanase, and hemicellulase which help improve the digestive process by working synergistically with the probiotic bacterial strains.
- Amphi-BACT is helpful to increase the population of beneficial micro-organisms including lactobacilli and bifidobacteria which then inhibit growth of harmful micro-organisms.
- Amphi-BACT is of value to increase digestibility of nutrients in diet due to increased enzyme activity in the intestine induced by probiotics in addition to inclusion of digestive enzyme in its formula.
- Amphi-BACT has immunomodulatory properties by improving innate gut immunity through restitution of intestinal barrier function. It is also helpful in preventing pathogenic organisms from colonizing the intestinal mucosa.
- Amphi-BACT is helpful to increase the height of intestinal villi and villus height/crypt ratio in poultry, thus increasing the surface area for nutrient absorption.



- Amphi-BACT can improve egg quality by reducing cholesterol in egg yolk.
- Amphi-BACT can be a valuable tool for improving the performance of broiler chickens by aiding in the process of fermentation of silage.
- Amphi-BACT is characterized by combined bacterial strains and digestive enzymes which help in reducing the pH of the silage, preventing the heating and spoilage of the silage and its loss. The selected bacteria and digestive enzymes help improve the value of the silage feed, giving a better yield and efficiency of the feed and increased average final weight.
- Amphi-BACT is conveniently and easily administered to both feed and drinking water and is easy to use in the dry granulation process of silage.

Benefits:

- Amphi-BACT helps in improving the performance of broilers, increasing the average weight and preventing digestive problems, in addition to reducing the mortality rate.
- Amphi-BACT can be used to guard against or help cure of common intestinal and general poultry infections including:

- | | |
|------------------------------------|--------------------------------|
| 1- Salmonellosis | 2- Campylobacteriosis |
| 3- Necrotic enteritis (NE) | 4- Coccidiosis |
| 5- Infectious Bursal Disease (IBD) | 6- Dysbiosis (Dysbacteriosis). |

Directions for Use:

- Add 300-350 grams of Amphi-BACT for each on ton of feed or 1 gram for each 4 liters of drinking water.

Ingredients:

• PROBIOTIC BACTERIAL AND YEAST STRAINS:

- 1- Lactobacillus acidophilus.
- 2- Lactobacillus plantarum.
- 3- Bifidobacterium bifidum.
- 4- Bacillus subtilis fermentation extract.
- 5- Aspergillus niger fermentation extract.

• DIGESTIVE ENZYMES:

- 1- Cellulase and Hemicellulase.
- 2- Beta-glucanase.
- 3- Amylase.



AMNEFRON

Powder

A Unique High Concentration Formula for Kidney Health

Product Description:

- AMNEFRON (Amphi-NEFRON in some markets) is a unique, high-concentration formula that contains 99% active ingredients specifically formulated to work in tandem to help maintain renal and hepatic health.
- AMNEFRON is a potent diuretic, thanks to its high content of Ammonium Chloride, Magnesium Sulfate and Sodium Sulfate in a scientifically balanced blend that acts synergistically to help excrete toxins through the kidneys and improve renal functions.
- AMNEFRON helps prevent the formation of renal calculi and renal edema.
- AMNEFRON aids in improving liver function by increasing bile secretion, aiding to the increased hepatic activity and functions in neutralizing toxins and prevention of fatty changes of the liver. It helps in excreting and eliminating toxins of both renal and hepatic sources.
- AMNEFRON helps decrease urine pH, which acts as a disinfectant to the urinary tract, inhibiting the breeding of pathogenic bacteria.
- AMNEFRON helps effectively in improving the overall performance of birds and animals by supplying all water-soluble vitamins and helps absorption of fat-soluble vitamins through its high content of sorbitol.

Benefits:

- AMNEFRON can be used in prevention and combating of the following:
 1. All kinds of fungal, bacterial, and viral infections that produce harmful toxins.
 2. Multiple mycotoxicosis.
 3. Kidney and liver stress conditions.
 4. Renal and liver failure.
 5. Urolethiasis.
 6. Visceral and renal gout.
 7. Acute toxic nephritis.



- 8. Renal necrosis.
- 9. Immune stress and deficiency conditions.
- 10. Ill effects of pesticide residue.
- 11. Increased protein and calcium content in feed..

Directions for Use:

- Add at the rate of 1 gm / 4 liters of drinking water of poultry.
- Add at the rate of 1 gm /1 calf in drinking water of calves.
- Add at the rate of 1 gm / 5 rams in drinking water of rams.

Ingredients:

- Ammonium Chloride
- Magnesium Sulfate
- Sodium Sulfate
- Niacin
- Vitamin C
- Vitamin B₁
- Vitamin B₂
- Vitamin B₆
- Sorbitol 70%
- Colloidal Silica as an anti-caking agent.



AMPHIPROFAT

Powder

An Immune Enhancer and Weight Gain Factor

Product Description:

- Amphi-PROFAT is a specially formulated blend of selected vitamins, amino acids, and specialty components scientifically formulated to help promote growth, increase FCR, promote healthy intestinal function, and enhance immunity.

Amphi-PROFAT contains basic and characteristic ingredients such as:

1-DMG (N, N-Dimethylglycine), an anti ascites and digestive agent with antioxidant properties

2-GOX (Glucose Oxidase), a digestive with antibacterial effect

3-2-DDG (2-Deoxy-D-Glucose), a natural monosaccharide which exhibits various physiological and pharmacological effects as an antiviral agent.

4- XOS (Xylo Oligosaccharide), a prebiotic for healthy gut functions and immune stimulant effects

- 2-DG inhibits phosphorylation of glucose molecules that produce glucose-6-phosphate in the glycolysis cycle, thereby inhibiting the production of ATP. 2-DG can restrain viral infections and fermentation, microbes, and cancer cell growth. It also controls metabolism and possesses physiological and therapeutic effects. These effects produced by 2-DG can change the polysaccharides of viruses, leading to loss of their infectious influence and inhibit viral proliferation.

- DMG, N, N-Dimethyl-glycine is a nutritional supplement that promotes growth and enhances carcass yield and decreases oxidation and mortality in birds and animals. DMG, N,N-Dimethylglycine helps decrease ascites syndrome and abdominal fat, improves the feed conversion ratio, which in turn shortens feeding periods, and increases yield. As a nutritional supplement for poultry (both broiler and layer), DMG, N,N-Dimethyl- glycine helps to promote growth and increase FCR, enhancing and speeding up fertility. DMG, N,N-Dimethylglycine is a potent antioxidant that improves the body's utilization of oxygen and supports the immune system to reduce the mortality of animals and birds..

Benefits:

- The use of Amphi-PROFAT helps in partial substitution of Lysine and Choline in the feed, thus reducing costs. Amphi-PROFAT helps increase egg production rate, lower feed-egg ratio, and improve eggshell color and quality. Amphi-PROFAT helps prevent fatigue syndrome of cage layer, promotes fat metabolism, and prevents fatty liver. Glucose oxidase enzyme (GOX) is an oxido-reductase that catalyzes the oxidation of glucose to hydrogen peroxide and D-glucono-6-lactone.



• This enzyme displays antibacterial activity when oxygen and glucose are present. GOX is soluble in water and insoluble in organic solvents. GOX enzyme is stable under aerobic conditions. (3-D- Glucose can be highly specific when converted to glucanic acid and hydrogen peroxide under aerobic conditions by Glucose oxidase. With the oxygen in the intestinal dilute and the concentration of hydrogen peroxide accumulation, the harmful bacteria (*Escherichia coli*, *salmonella*) can be inhibited, and as a result, that can clear large free radicals, protect the integrity of the gut epithelial cell, and prohibit the pathogen and coccidial invasion. GOX helps eliminate pathogenic bacteria of the intestines, keeping the balance of intestinal flora and improving immunity. GOX aids in protecting the integrity of intestinal epithelial coat, thus helping protect against invasion of coccidia and harmful pathogen. GOX improves acidic environments of the gastrointestinal tract, promoting healthy digestion and nutrient absorption.

Directions for Use:

Amphi-PROFAT may be applied to either drinking water or animal feed.

• Application on drinking water: 1000 gm/2000 litter in drinking water.

• Application on animal feed: 1000 gm/t formula feed.

Ingredients:

I. Basic and Characteristic Ingredients:

1. Digestives and Anti-oxidant: DMG (N, N-Dimethylglycine)
2. Enzyme with anti-bacterial effects: GOx (Glucose Oxidase enzyme)
3. Anti-viral: 2-DDG (2-Deoxy-D-Glucose)
4. Prebiotic :XOS (Xylo Oligo-sccarides)

II. Amino Acids:

1. Taurine
2. L-lysine
3. DL-methionine
4. Sorbitol

III. Vitamins:

1. Vitamin A
2. Vitamin D₃
3. Vitamin E
4. Vitamin K₃
5. Vitamin B₁
6. Vitamin B₆
7. Vitamin B₁₂
8. Nicotinic Acid

9. Calcium Pantothenate

IV. Minerals

1. Zinc Gluconate
2. Sodium butyrate
3. DL-methionine
4. Sorbitol
6. Vitamin B₆
7. Vitamin B₁₂
8. Nicotinic Acid
9. Calcium Pantothenate



AMPHINATE

Powder

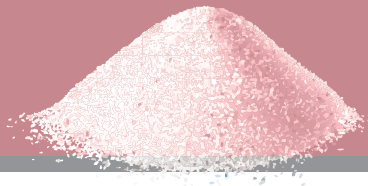
*Synergistic Phytobiotic (Formed Of NATURAL Ingredients)
With Immune Enhancing Properties, Anti-Viral Activity and
Anti-Bacterial Activity*

Product Description:

- Amphi-NATE is a specially formulated blend of selected phytobiotics with a synergetic antiviral, antimicrobial activity. Amphi-NATE, in addition, contains selected chelated trace elements and amino acids, as well as proprietary components that help minimize inflammation, and aid in reducing pain.
- The ingredients in Amphi-NATE were selected based on scientific research and studies ensuring that all of the ingredients work in complete tandem to combat infections, increase immunity, and improve the well-being and activity of sick birds and animals.
- Amphi-NATE contains all of the essential components as a part of helping birds and animals combat viral and microbial infection.
- Amphi-NATE not only enhances all functions of the immune system, but it neutralizes the infectious organisms, whether bacterial or viral, and improves performance of sick birds and animals, leading to increased physiological activity, and accordingly, feed intake.
- Amphi-NATE contains Botanical Immune System Support: Astragalus root, Echinacea root, and other proprietary herbal components.
- Amphi-NATE contains Botanical Anti-Microbial and Antiviral Echinacea root, Oregano leaves, and other proprietary herbal components.
- It contains Botanical Anti-Inflammatory and Analgesic: Turmeric root and Licorice root, in addition to calcium carbasalate.

Benefits:

- Amphi-NATE major phytobiotic components such as Astragalus extract have significant immune system effects, leading to great decline in the percentage of senescent (aging and non-functional) cytotoxic T cells and natural killer cells and accordingly, leads to increased ability to fight infection, both viral and bacterial. Amphi-NATE component of Oregano extract is composed primarily of monoterpenoids and mono-terpenes. Over 60 different compounds have been identified, with the primary ones being carvacrol and thymol, p-cymene, terpinene, caryophyllene, spathulenol, germacrene-D, fenchyl alcohol and terpineol. Oregano has an effect as an antimicrobial as well as a support against gastric and respiratory disorders. Oregano also has a soothing effect as a palliative substance for inflamed respiratory tract. Oregano contains polyphenols,



including numerous flavones that are proven to help in combating viral and bacterial disorders of the gastrointestinal tract, respiratory tract, and nervous system. Rosemary in Amphi-NATE contains a number of phytochemicals, including rosmarinic acid, camphor, caffeic acid, ursolic acid, betulinic acid, and anti-oxidants carnosic acid and carnosol, as anti-inflammatories, and analgesic. Amphi-NATE content of Echinacea extracts plays a role through three Glycoproteins which have been implicated in the immune-stimulatory activity of Echinacea extracts by inducing cytokine production and by their mitogenic activity. Two polysaccharides with immune-stimulatory properties have enhanced phagocytosis both in vitro and in vivo, specifically stimulated macrophages to excrete the tumor necrosis factor (TNF) Hydro-carbons. Amphi-NATE component of Echinacea roots and its essential oils contents up to 0.2% with their beneficial therapeutic effects.

Directions for Use:

- For oral administration with drinking water or with the feed
- As a supplement during disease: 100 gm to 150 Liters of drinking water or 100 kg of feed, 5-7 days of continuous use
- For prevention of disease: 100 gm to 200 Liters of drinking water or 150 kg of feed, 5-7 days of continuous use

Ingredients:

1. Natural Immune Stimulants:
 - Echinacea Extract • Astragalus Extract
2. Natural Anti-virals and Anti- bacterials
 - Oregano Extract • Rosemary Extract
3. Natural Anti-inflammatory and Analgesics
 - Turmeric root • Licorice root
4. Other Immune Stimulants:
 - Vitamin C100%
5. Amino Acids
 - L-Lysine • L-Threonine
 - DL-Methionine • L-Tryptophan
6. Trace Elements
 - Zinc (Chelated Glycine)
 - Copper (Chelated Glycine)
7. Other Anti-inflammatory, Analgesic & Anti-pyretic
 - Calcium Carbasalate



AMPHIFLUNATE

Powder

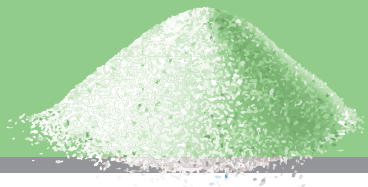
Immune Enhancer and Anti-viral Agent

Product Description:

- Amphi-FLUNATE is a characteristic and unique product specifically designed to guard against and cure viral infectious diseases in both poultry and livestock. This characteristic feature is based upon combining multiple specific antiviral components in addition to well-known immune boosting components.
- All ingredients act synergistically to provide a powerful and broad-spectrum antiviral action for both prophylactic and curative purposes.
- Antiviral ingredients include Vitamin C, Mushroom Lectins, Echinacea extract, Pidotimod, Astragalus, Turine and Oregano.
- Immno-stimulant ingredients include Pidotimod, Astragalus, Vitamin A, Vitamin B6, Biotin (Vitamin B7), Vitamin C, Vitamin E, Taurine, Amino acids (L-Tryptophan, L- Threonine, L-Lysine and DL-Methionine)
- Amphi-FLUNATE contains Anti-Inflammatory, Anti-pyretic and Analgesic Calcium Carbasalate to relief infection-related stress and therefore improves immunity and help rapid cure.
- Amphi-FLUNATE is highly effective and indicated for prevention and helping treatment of a wide range of viral infectious diseases in both poultry and livestock such as avian influenza, avian infectious bronchitis, avian laryngo-tracheitis viral disease, Newcastle viral disease, Foot-and-Mouth Disease, Classical Swine Fever, African Swine Fever, Sheep pox , Goat pox, Bluetongue and many others.

Benefits:

- Amphi-FLUNATE can be used before and after vaccinations to promote the production of antibodies and maintain the animal's well-being.
- Amphi-FLUNATE can be used as the prevention and adjunctive supplement during viral disease, especially immunosuppressive disease such as ND, IB, IBD, and proventriculitis of poultry.



- Amphi-FLUNATE provides excellent support in stressful conditions such as long-distance transportation, sudden change in weather, and high temperature, during symptoms of growth and development retardation, weakened resistance against disease and infections, and loss of appetite and weakness.

- Amphi-FLUNATE can be given either alone or in combination with chemical or antibiotics, as recommended in severe cases.

Directions for Use:

As a supplement during disease:

- 130 gm to 100 Lit of drinking water or 100 kg of feed, 5-7 days of continuous use. For prevention of disease:

- 130 gm to 200 Lit of drinking water or 200 kg of feed, 5-7 days of continuous use.

Ingredients:

Each 1 kg. contains:

- Vitamin A (Vitamin A Acetate), Vitamin E (DL-alpha Tocopherol Acetate), Vitamin B6 (Pyridoxine Hydrochloride), Vitamin C 100%, Biotin, Taurine, L-Tryptophan, L-Threonine, L-Lysine, DL-Methionine, Zinc Chelated Glycine, Gama Amino Butyric Acid, Copper Chelated Glycine, Pidotimod (PDMD), Carbasalate Calcium, Echinacea Extract, Astragalus Extract, Oregano Extract powder, Rosemary extract, powder, Xylo-oligosaccharides, Fructo-oligosaccharides, Xylitol, Sodium Chloride, Lectin (From Mushroom) and N. Acetylcysteine.



AMPHIZYME-COMPLEX

Powder

*A Unique High Enzymatic Activity Nutritional Product
Improves Digestibility of Nutrients & Helps Promote Growth*

Product Description:

- Amphi-ZYME COMPLEX helps degrade anti-nutritional factors in diet, reduce viscosity, improve feed energy supply, improve digestibility of nutrient, improve livestock growth performance, and reduce feed cost.
- Amphi-ZYME COMPLEX helps degrade β -mannan, improve insulin secretion, improve glucose absorption and carbohydrate metabolism, improve energy utilization rate, improve the growth of insulin like growth factors (IGF-I), improve animal growth; degrade stachyose, raffinose and soy oligosaccharide thus preventing flatulence.
- Amphi-ZYME COMPLEX helps degrade crude fiber in miscellaneous meal and grain, and eliminate its nutrient barrier effect, decompose water soluble NSP, reduce viscosity, improve nutrient absorption rate, improve additional amount of by-product in corn processing, cottonseed meal, rape seed meal and other unconventional materials in feed, and reduce feed cost.
- Amphi-ZYME COMPLEX helps improve intestinal microbial component, improve the digestive function of young and old aged animal, reduce the effect from stress reaction, maintain animal health, and improve animal growth performance.
- Amphi-ZYME COMPLEX helps reduce the effect of anti-nutritional factors, reduce quality instability resulted from feedstuff variation, ensure stable product quality, reduce complaint, and ensure stability of premix and concentrated feed performance.

Benefits:

1. Enzymes included in Amphi-ZYME COMPLEX reduce gut viscosity:
 - Cereals contain high proportions of their energy in the form of non-starch polysaccharides. They contain soluble indigestible polysaccharides like arabinoxylan (wheat), mixed linked β -glucans (in barley and rye), lignin, and limit dextrin, antinutritional factors like phytic acid and cellulose fiber.
 - Enzymes included in Amphi-ZYME COMPLEX are able to bind large amount of water increasing viscosity in the gut, affects rate of passage of digesta, rate of mixing of bile, pancreatic and intestinal secretions with digesta, rate of absorption of digesta and increases the amount of sticky droppings.



2. Increasing the effectiveness of host (endogenous) Enzymes:

- Breaking down the gel form characteristic of soluble fibers allows the birds' digestive enzyme to function more efficiently. This improves starch, protein, fat, amino acids and energy digestibility.

3. Alteration in feed passage rate:

- The enzymes reduce the water holding capacity of the gut contents thus increasing the dry matter content stimulating feed intake.

4. Effect on Excreta characteristics:

- Addition of enzymes also reduces the dry matter outside the body thus has marked impact on excreta volume and composition. Due to protein digestibility lowering of excreta output is observed.

5. Amphi-ZYME COMPLEX is high enzyme activity Enzyme mix. It is a feed additive mainly used for animals and poultry.

1. Amphi-ZYME COMPLEX is indicated to degrade anti-nutritional factors in diet and reduce viscosity.

2. Amphi-ZYME COMPLEX is indicated to improve feed energy supply, improve digestibility of nutrient, improve livestock growth performance, and reduce feed cost.

3. Amphi-ZYME COMPLEX is used to improve performance of broilers, increase average weight and prevent digestive problems.

Directions for Use:

- 100 grams per ton of feed or 1000 L of drinking water for poultry.

Ingredients:

Each one Kilogram contains: -

Xylanase:	6250000 Units
Cellulase:	10000000 Units
Beta-Glucanase:	2500000 Units
Pectinase:	250000 Units
Amylase:	10000000 Units
Protease:	2000000 Units
Lipase:	60000 Units
Phytase:	5000000 Units
Galactosidases:	260000 Units
Mannanase:	220000 Units.



AMPHIZYME-P

Powder

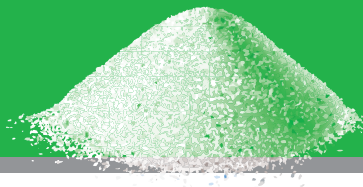
*Unique High-Enzymatic Activity Phytase
Feed Additive for Animals & Poultry Improves Digestibility
of Nutrients and Helps Promote Growth*

Product Description:

- Amphi-ZYME-P helps degrade anti-nutritional factors in diet, reduces viscosity, improves feed energy supply, improves digestibility of nutrients, improves livestock growth performance, and reduces feed cost.
- Amphi-ZYME-P helps degrade and break down the indigestible phytic acid (phytate) portion in grains and oil seeds, thereby releasing digestible phosphorus and calcium for animals.
- The technology behind Amphi-ZYME-P makes the phytase granules in the product 10 times more heat-stable than all powder enzymes. This special coating technology allows Amphi-ZYME-P to withstand the pelleting heat 10 times more than powder enzymes, which makes the effectiveness of the dose guaranteed to get better results due to excellent heat stability.
- Amphi-ZYME-P is unique being characterized by:
 1. High specific catalytic activity.
 2. Broad substrate specificity.
 3. Good thermostability.
 4. High residual activity at 40°C.
 5. High activity within the pH range from 2.5 to 7.5.
 6. Resistant to proteolysis.
 7. Good stability at ambient temperatures.

Benefits:

- Amphi-ZYME-P increases the utilization of phosphorus in feed, thus releasing inorganic phosphorus for direct utilization of livestock and poultry. AmphiZyme-P decreases dosage of costly inorganic phosphorus and reduces feed costs and uses a space-saving formula to ensure or improve effects of breeding.



- Amphi-ZYME-P helps increase utilization and availability of minerals, protein, and other nutrients to improve production performance of animals.
- Amphi-ZYME-P decreases the excretion of phosphorus in feces, thus improving the breeding environment.
- Amphi-ZYME-P helps in improving the performance of broilers, increasing the average weight and preventing digestive problems. It improves ileal digestibility of nitrogen and amino acids.
- Amphi-ZYME-P improves feed intake and efficiency.
- Amphi-ZYME-P increases bioavailability of P, Ca and amino acids. It increases the utilization of methionine, lysine, valine, isoleucine and total amino acids in broiler diets.
- Amphi-ZYME-P improves body weight gain and growth performance in broiler chickens due to increased bioavailability of phosphorus, increase in feed intake and feed efficiency, increase utilization of inositol, improvement in starch digestibility, improved utilization of protein and amino acids and overall utilization of nutrients.

Directions for Use:

- Administer at the rate of 100 grams/ton of feed.

Ingredients:

Each 1 Kilogram contains:

- Phytase 12,000,000 FTU.



AMPHILACTIN

Powder

Dietary Supplement for Better Milk Production and Quality in Large Animals.

Product Description:

- Amphi-LACTIN is a specialized dietary supplement that helps better milk production and quality in large animals.
- Amphi-LACTIN contains the right blend of useful yeast, bacteria, minerals as calcium and phosphorous and high energy amino acids proven to be able to increase energy efficiency in dairy feed. These ingredients work through increasing energy density and sustaining the efficiency improvement of milk protein synthesis through increasing the flow of nitrogen (N) non-ammonia into the duodenum thus increasing milk production.
- Amphi-LACTIN combines all essential elements required for better milk yield by dairy cows and cattle as well as those required to improve milk composition. It increases both protein and fat content of milk.
- Amphi-LACTIN helps to increase dry matter intake (DMI), improves feed efficiency and improves nutrients digestibility.
- Amphi-LACTIN helps maintain an ideal ruminal pH that provides an antimicrobial environment, therefore, it boosts immune response required to guard against possible infections especially postpartum mastitis. It also reduces incidence of subclinical ketosis.
- Amphi-LACTIN improves energy availability for postpartum cows and helps less energy mobilization from adipose deposits.
- Amphi-LACTIN helps to maintain healthy bone density during lactation and increases ruminal synthesis of vitamin B12 leading to increased vitamin B12 concentrations in colostrum and milk

Benefits:

- Amphi-LACTIN is used for the following purposes:
 1. Improved milk production and quality in large animals.
 2. Increased protein and fat content of milk.



3. Increased dry matter intake (DMI), and improved nutrients digestibility.
4. Boosting immune response during lactation and helping to guard against possible infections especially postpartum mastitis.
5. Reduced incidence of subclinical ketosis.
6. Maintenance of healthy bone density during lactation.

Directions for Use:

For oral administration with drinking water or with the feed

- For dairy cattle, administer at a rate of 1 kg/ton of complete feed or 10g/head/day

Ingredients:

1. Yeast (*Saccharoyces cerevisiae*).
2. Lactic acid bacteria:
 - *Lactobacillus acidophilus*.
 - *Bifidobacterium bifidum*.
 - *Aspargillus niger*.
3. Enzymes Mix from Dried fermentation extract.
4. Mineral oil.
5. Buffers:
 - Sodium bicarbonate.
 - Disodium phosphate.
 - Calcium carbonate
6. Monocalcium phosphate (of mineral origin).
7. Amino acids:
 - DL-methionine.
 - L-lysine.
8. Minerals and Vitamins:
 - Cobalt sulphate heptahydrate.
 - Vitamin B12.



AMPHILAXIN

Powder

Digestive, Appetizer and Laxative
Helps Correct Digestive Imbalances in Large Animals

Product Description:

- Amphi-LAXIN serves as Digestive, Appetizer and Laxative owing to its balanced formula that combines salts (minerals and electrolytes), herbal extracts and mineral oil to increase the peristaltic movement of the digestive tract, facilitates easy elimination of waste material (excreta), relieves accumulated gases and helps in maintaining normal digestive functions and solves many digestive problems in livestock.
- Amphi-LAXIN helps restore the physiological functions of the rumen and accordingly optimizes livestock's intestinal functions and normal peristalsis both in lactating cows and heifers.
- In lactating cows, it is essential for increased milk yield that dry matter feed intake be also increased which in turn affects the overall digestive process and motility. Through its intestinal motility stimulating effect, Amphi-LAXIN helps solve this issue of dry matter intake in lactating cows by increasing the intestinal peristaltic movement thus decreasing bloating and acid pooling and fermentation in the rumen, allowing the proper mixing of feed with digestive enzymes as well as proper digestion and absorption of nutrients and ultimately efficient waste elimination

Benefits:

- Amphi-LAXIN is of great value in helping solve digestive tract problems in large animals such as constipation, bloat (tympany) and impaction.
- Amphi-LAXIN is helpful in reducing the re-absorption of toxins and suppressing the excessive fermentation and putrefaction occurring in the duodenum, jejunum and ileum of ruminants.
- Amphi-LAXIN supplementation to dairy cows and heifers showed remarkable improvement in digestive conditions that are likely to interfere with optimal rumen fermentation include such as environmental changes, decreased water intake, high dry matter feed Intake, low quality and unbalanced nutrients content of feed and feed quality change.



- Amphi-LAXIN has a remarkable appetizer and digestive effects though stimulation of gastric juice and bile secretion.

Directions for Use:

For oral administration with drinking water or with the feed

- For dairy cattle, administer at a rate of 20-40 g/head/day

Ingredients:

1. Salts (Electrolytes and Minerals)

- Sodium sulfate
- Sodium carbonate
- Potassium sulfate
- Calcium carbonate
- Calcium sulfate
- Magnesium oxide
- Magnesium carbonate
- Manganese sulfate
- Copper sulfate
- Ferrous sulfate
- Ferrous oxide
- Zinc sulfate
- Cobalt carbonate
- Ethylenediamine dihydroiodide.

2. Herbal extracts

- Nux Vomica extract
- Gentian herbal extract

3. Mineral Oil



AMPHILLCIN

Powder

*Unique Combination of Yeast Nutrients and Enzymes with
High Concentration Allicin Ingredients*

*Natural Powerful Growth Promoter of Antimicrobial &
Immunomodulator Allicin & Prebiotic Autolyzed Yeast
Fermentation Extract*

Product Description:

- Amphi-LLICIN is a unique combination of high concentration allicin and autolyzed yeast fermentation extract.
- Amphi-LLICIN is described as a natural growth promoter of antimicrobial and Immune-modulator allicin, with prebiotic autolyzed yeast fermentation extract.
- Amphi-LLICIN contains allicin which is an organosulfur and defensive compound found in garlic (*Allium sativum*) and other *Allium* species. *Allium sativum* is one such potential feed supplement which has recently been reported as having a wide range of beneficial effects on the production performance and physiological biochemistry of broilers and laying hens as well as large animals.
- Amphi-LLICIN contains also autolyzed yeast fermentation extract which is the cellular degradation product of yeast cell wall that is used in animal nutrition for its prebiotic nature. Autolyzed yeast of *Saccharomyces cerevisiae* contains 29-64% of β -glucans, 31% mannan oligosaccharides, 13% of protein, and 9% of lipids.
- Amphi-LLICIN represents a much better alternative to Antibiotic Growth Promoters (AGPs) being devoid of the antibiotic resistance potentiality with much more broad spectrum of antimicrobial effect including antibacterial (Gram +ve and Gram -ve), antiviral, antifungal and antiparasitic effects.
- Amphi-LLICIN, in addition to the antimicrobial effect, has a powerful antioxidant and immunomodulatory actions through both allicin and autolyzed yeast components.
- Amphi-LLICIN has proven notable beneficial effects on growth, feed efficiency, egg production and quality, as well as stimulation of immune system and lowering blood cholesterol levels in poultry birds.



Benefits:

- Amphi-LLICIN acts as a powerful growth promoter that can be added to feeds to improve feed utilization and the growth of poultry and farm animals. It provides protein and energy supplements for livestock, particularly ruminants and poultry. Therefore it helps good health and well-being of poultry and livestock.
- Amphi-LLICIN acts as a powerful growth promoter that can be added to feeds to improve feed utilization and the growth of poultry and farm animals. It provides protein and energy supplements for livestock, particularly ruminants and poultry. Therefore it helps good health and well-being of poultry and livestock.
- Amphi-LLICIN allows a wide protection against different bacterial, viral, fungal and parasitic diseases in both poultry and livestock.
- Amphi-LLICIN can be used as an adjuvant treatment and to guard against several bacterial diseases caused by antibiotics-resistant strains, such as MRSA as well as other multidrug-resistant enterotoxigenic strains of *E. coli*, *Enterococcus* and *Shigella*.
- Amphi-LLICIN helps to reduce incidence of viral diseases such as viral influenza and new castle disease in poultry and farm animals.
- Amphi-LLICIN has an anthelmintic potential effect against a wide variety of parasitic diseases such as *Ascaridiagalli* diseases in poultry birds. Therefore, it can be used as potential guard against parasitic diseases in poultry and livestock. It is recommended for the treatment of parasitoses and other intestinal diseases.
- Amphi-LLICIN has an antioxidant and immune-stimulant properties related to both allicin and yeast fermentation extract. Therefore, it provides protection against the colonization of the intestine by bacterial pathogens like *Salmonella*, *Listeria monocytogenes*, *E. coli* and their toxins.

Directions for Use:

- Add 200 - 500 grams per ton of feed for poultry and live stock

Ingredients:

- Garlicin (50% Allicin).
- Autolyzed Yeast Fermentation Extract.
- Water Soluble Compound Starch.
- Silicon dioxide.



AMPHISTRESS

Hydrated Gel

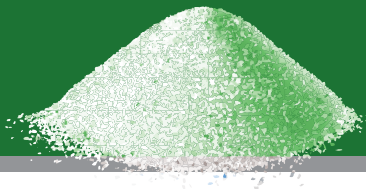
A hydrated highly nutritious gel of betaine, multi-vitamins, amino acids, electrolytes, minerals and trace elements as a complementary feed required for the development and survival of newly hatched chicks in different stressful conditions.

Product Description:

AMPHISTRESS gel is an alternative nutritious system necessary to compensate or avoid the side effects of bad practices implemented since the first hours of life of newly hatched chicks.

AMPHISTRESS gel is an adequate source of betaine for newly hatched chicks. Betaine inclusion in AMPHISTRESS gel has the following benefits:

- Betaine reduces the width and increases the absorptive area and the villus height of the duodenum of birds up to 14 d of age.
 - Transitory inflammatory responses during the pre-starter and starter phase was reduced by the presence of betaine in the diet. Betaine inclusion reduced the severity of this apparent inflammatory response up to d 14.
 - Betaine improves water transit through the enterocyte, stimulates villus growth of broilers and reduces the effect of a coccidial challenge.
 - Betaine included in AMPHISTRESS gel ensures cell hydration and stress recovery.
- AMPHISTRESS gel is fortified with a wide range of electrolytes and minerals that ensure adequate supply of these nutrients to newly hatched chicks for proper development of bone, nervous tissues, muscles performance and growth. AMPHISTRESS gel contains a wide range of vitamin mix for proper healthy metabolic reactions of the newly-hatched chicks. AMPHISTRESS gel ensures adequate supply of easily digestible Amino acids such as DL-Methionine, L-Lysine, L-Threonine, L-Tryptophan and Glycine. The intestinal microbiome is not well established before the third week of life. In newly-hatched chicks, it contains various bacterial species that are heavy consumers of amino acids and energy for their growth and colonization. AMPHISTRESS gel ensures the availability of synthetic digestible amino acids to precisely meet the ideal amino acid profiles required for early life. AMPHISTRESS gel is fortified with lactobacilli that plays a crucial role to improve newly-hatched chicks' immune response. It modulates the immune system mainly through interaction with T lymphocytes rather than B cells, implicating a T-dependent B cell activation mechanism. In addition to their role in eliciting innate and cell-mediated immune responses, probiotic lactobacilli have shown to enhance antibody-mediated responses to various antigens.



Benefits:

AMPHISTRESS gel is designed to combat various stressors, together with feed deprivation during the first few hours of chicks' life that increases the chance of disease contraction and mortality.

AMPHISTRESS gel is a complementary feed, which provides all the nutrients and additives that chicks need during their first hours of life, promoting the development of the gastrointestinal system and preventing the documented side effects caused by fasting.

AMPHISTRESS gel is used to guard against the serious consequences that result from different factors that can affect the welfare of broiler chickens, such as the deprivation of water and feed for long hours, inappropriate feeding, and environmental stressors.

AMPHISTRESS gel administration ensures the following benefits to newly hatched chicks:

- Significant increments in yolk sac absorption.
- Positive effects on weight gain and feed intake during the first 10 d post-hatch.
- On the 25th day after hatch, a higher antibody titers against infectious bronchitis virus was detected.

Early feeding of broiler chickens using AMPHISTRESS hydrated nutritious gel with or without a solid starter feed had an accelerative effect on yolk sac uptake. Growth performance, thigh muscle yield, and humoral immune responses were also positively affected by the EF regimens.

Ingredients:

BETAINE HYDROCHLORIDE (95%), Vitamin A (Acetate), Vitamin D3 (Cholecalciferol), Vitamin E (DL - alpha tocopherol acetate), Vitamin K (Menadione Sodium Bisulfate), D-Panthenol (B5), Vitamin B1, Vitamin C 99%, Vitamin B2 (Riboflavin), Vitamin B6 (Pyridoxine HCL), Vitamin B12 Cyanocobalamin, Niacin (vitamin B3), Biotin (vitamin H) (2%), DL-Methionine, L-Lysine (Mono HCL), L-Threonine, L-Tryptophan, Glycine, Potassium (Potassium Bicarbonate), Calcium (Calcium Acetate), Sodium (Sodium Acetate), Sodium (Sodium Diacetate), Sodium (Sodium Chloride), Magnesium (Magnesium Chloride), Lactobacillus Acidophilus, Menthol (from Peppermint Plant Mentha Avensis), Chlorophyllin Copper Complex, Xanthan Gum, Sodium (Sodium Benzoate), Potassium (Potassium Sorbate), and Microcrystalline Cellulose.



AMPHIVIT-K₃

Powder

Concentrated Water-Soluble Source of Vitamin K for Poultry

Product Description:

- Amphi-VIT K₃ is a high-concentration, water-soluble Vitamin K₃ powder.
- Vitamin K is a cofactor in the post-ribosomal synthesis of clotting factors including factor II (prothrombin, VII (proconvertin), IX (plasma thromboplastin component) and X (Stuart factor), as well as of Proteins C and S that are involved in the production and inhibition of thrombin.
- Vitamin K hypovitaminosis results in hypoprothrombinemia, which in turn, leads to prolonged bleedings, large hematomata, and the development of severe hemorrhagic anemia and hemolytic jaundice.
- Menadione (synthetic Vitamin K₃) is absorbed by diffusion in the distal portions of the small intestine and colon, and metabolized to diol (hydroquinone) form and excreted as glucuronide and sulphate conjugates.

Benefits:

- Amphi-VIT K₃ is indicated in the prevention of hemorrhages associated with Vitamin K deficiency or intestinal parasitic infections such as coccidiosis, and as an antagonist for anticoagulant poisoning (e.g., due to rodenticide toxicity, sweet clover poisoning or treatment with sulfaquinoxaline) in calves, cattle, goats, poultry, sheep, and swine.

Directions for Use:

For oral administration as a source of Vitamin K in preventing

- Vitamin K deficiency.
- Poultry: 1 kg / 2500 liters of drinking water for three to seven days.
- Calves, Goats, Cattle, and Sheep:
1 gm per 20-40 Kg of body weight.

Ingredients:

Each 1 kg contains:

- A Proprietary Patented Mix of Vitamin K₃ and excipients.



AMPHIFLU-EX

Powder

Synergistic Combination of Immune System Enhancers with Remarkable Anti-viral and Anti-stress Properties

Product Description:

AMPHIFLU-EX Powder is designed to provide maximum protection against poultry infections especially viral ones either to guard against them or as an adjuvant during infection. AMPHIFLU-EX Powder is characterized by inclusion of Idotimod, an immune system enhancer that promotes the production of interferon and antibodies. AMPHIFLU-EX Powder contains also Taurine serving as immune-boosting, muscle building and anti-inflammatory agent. Methionine-Chelated Zinc is included in AMPHIFLU-EX Powder for improving performance, feed intake, and muscle gain and also to enhance immunity during infections. AMPHIFLU-EX Powder contains a combination of the most important vitamins such as Vitamin B6, Vitamin E, and other microelements to help as combat stress during disease, post-vaccination, and other stressful conditions. Vitamin E acts as a potent anti-oxidant for elimination of free radicals in response to viral infections and a powerful immunomodulatory and Vitamin B6 as an essential co-enzyme during stress and infection. AMPHIFLU-EX Powder includes also γ aminobutyric acid (GABA) serving as anti-stress neurotransmitter during infection and heat stress and Immunomodulator. Calcium Carbasalate included in AMPHIFLU-EX Powder acts as an anti-stress agent with anti-inflammatory, antipyretic and analgesic properties. All ingredients in AMPHIFLU-EX Powder work synergistically to help improve the animal's appetite and capacity-increasing production and improving the physiological functions for faster recovery from illness.

Benefits:

- AMPHIFLU-EX Powder can be used before and after vaccinations to promote the production of antibodies.
- AMPHIFLU-EX Powder can be used as prophylactic or adjunctive supplement during viral disease such as ND, IB, IBD, and proventriculitis of poultry.
- AMPHIFLU-EX Powder provides excellent support in stressful conditions, low resistance against disease and infections, and loss of appetite and weakness.
- AMPHIFLU-EX Powder is used to improve broiler performance, energy production and feed intake and to improve egg production and quality during normal conditions and infection and stressful conditions.

Ingredients:

Idotimod, Taurine, Methionine-Chelated Zinc, Vitamin E, Vitamin B6, γ aminobutyric acid (GABA) and Calcium Carbasalate



AMPHIGUMBOREX

Powder

Renal and Hepatic Support

Product Description:

- Amphi-GUMBOREX is a unique high concentration formula specifically formulated to work in tandem to help maintain renal and hepatic health.
- Amphi-GUMBOREX is a potent diuretic in a scientifically balanced blend that acts synergistically to help excrete toxins through the kidneys and improve renal functions.
- Amphi-GUMBOREX aids in improving liver function by increasing bile secretion aiding to the increased hepatic activity and functions in neutralizing toxins and prevention of fatty changes of the liver.
- Amphi-GUMBOREX contains methionine which plays an important role in humoral and cellular immune responses.
- Amphi-GUMBOREX helps decrease the urine pH which acts as disinfectant to the urinary tract inhibiting the breeding of pathogenic bacteria.
- Amphi-GUMBOREX helps effectively in improving the overall performance of birds and animals by supplying water soluble vitamins and help absorption of fat soluble vitamins through its high content of sorbitol.

Benefits:

- Amphi-GUMBOREX can be administered in poultry as the adjuvant support to combat gumbo disease, hepatorenal syndrome and fever of viral and bacterial etiology.

Directions for Use:

For oral administration with drinking water

- Orally dissolved at the rate of 0.5 gm / Liter of drinking water, for 3-5 days

Ingredients:

- Ammonium chloride, DL Methionine, Sorbitol, Vitamin A, Vitamin C, Water Soluble Carrier, Anti Caking Agents and other proprietary ingredients..



AMPHI-GRO-MOS

Powder

*Synbiotic (Probiotics / Prebiotics Combination)
Digestive and Growth promoter*

Product Description:

- Amphi-GRO MOS Powder is designed to be a powerful digestive aid and growth promotor for poultry.
- Amphi-GRO MOS Powder is a "synbiotic" combination product of "probiotic" *Bacillus Subtilis* fermentation extract and "prebiotics" Mannan oligosaccharide (MOS), Acid protease and Alpha-amylase.
- Amphi-GRO MOS Powder promotes adequate digestion and absorption, enhance immunity and helps guard against gastroenteritis (especially that caused by *E. coli* and *Salmonella Sp.*). All these effects results in better weight gain, high energy balance and better feed efficiency.
- Amphi-GRO MOS Powder is characterized by the presence of MOS with furnishing effective support for digestion and immunity in poultry.

Benefits:

- Amphi-GRO MOS Powder helps to enhance and improve feed digestibility, feed utilization and absorption efficiency.
- Amphi-GRO MOS Powder is used to improve weight gain in poultry and promote their growth and to enhance egg production in laying hens.
- Amphi-GRO MOS Powder helps to guard against enteric and systemic infections by pathogens, especially *E. coli* and *Salmonella sp.*
- Amphi-GRO MOS Powder is required for proper immune functions through a stable microbiome, mucus layer development, barrier function and mucosal immune responses thus, provides the host the ability to withstand infectious and non-infectious stressors.
- Amphi-GRO MOS Powder is used to guard against dysbacteriosis and necrotic enteritis in poultry.

Directions for Use:

- 200 – 500 gram per ton of feed for poultry and live stock

Ingredients:

- *Bacillus subtilis* fermentation extracts, Acid protease, Alpha-amylase, Yeast cellwall, Corn distillers soluble, Calcium carbonate, Silicon dioxide.



AMPHIDIUREX

Powder

*A Unique High Concentration Renal Support and Diuretic,
for Calves and Poultry*

Product Description:

AMPHIDIUREX powder is a special feed additive helping as a source of minerals and vitamins for young animals during times of heat stress. In addition, AMPHIDIUREX is a unique, high-concentration formula that contains 99% active ingredients specifically formulated to work in tandem to help maintain renal and hepatic health, especially during stress conditions. AMPHIDIUREX is a potent diuretic, thanks to its high content of Ammonium Chloride, Magnesium Sulfate and Sodium Sulfate in a scientifically balanced blend that acts synergistically to help excrete toxins through the kidneys and improve renal functions. AMPHIDIUREX helps prevent the formation of renal calculi and renal edema. AMPHIDIUREX aids in improving liver function by increasing bile secretion, aiding to the increased hepatic activity and functions in neutralizing toxins and prevention of fatty changes of the liver. It helps in excreting and eliminating toxins of both renal and hepatic sources. AMPHIDIUREX helps decrease urine pH, which acts as a disinfectant to the urinary tract, inhibiting the breeding of pathogenic bacteria. AMPHIDIUREX helps effectively in improving performance of birds and animals by supplying all water-soluble vitamins and helps absorption of fat-soluble vitamins through its high content of sorbitol.

Benefits:

AMPHIDIUREX powder can be used in prevention and combating of the following:

- All kinds of fungal, bacterial, and viral infections that produce harmful toxins.
- Kidney and liver stress conditions.
- Renal and liver failure. - Urolethiasis.
- Visceral and renal gout. - Acute toxic nephritis.
- Multiplemycotoxicosis. - Renal necrosis.
- Immune stress and deficiency conditions.
- Ill effects of pesticide residue.

Ingredients:

Vitamin B1 (Thiamine HCl), Vitamin B2 (Riboflavin Sodium Phosphate), Vitamin B6 (Pyridoxin HCl), Vitamin B3 (Nicotinic Acid), Vitamin C, Potassium, Sodium, Magnesium (Magnesium Sulphate 98%), Ammonium Chloride, Colloidal Silica as anti-caking agent and Dextrose as carrier



AMPHIBETAINE

Powder

Osmoprotectant and methyl donor feed additive for optimal poultry and farm animal's performance, slaughter characteristics with anti-stress properties.

Product Description:

Betaine is a known functional nutrient in broiler nutrition. The principal physiologic role of betaine is to act as an osmolyte (osmoprotectant) and as methyl donor (transmethylation). As an osmolyte, betaine increases intracellular water retention and therefore protects intracellular enzymes against osmotic induced inactivation. As a methyl donor, betaine participates in the methionine cycle in the liver and can be further used for synthesis of essential substances like carnitine and creatine. The benefits of betaine as a feed additive for improving animal performance and slaughter characteristics are well documented. Dietary supplementation of betaine may reduce the requirement of other methyl donors such as methionine and choline. Bio-equivalence studies between betaine and choline/methionine in broilers diets allows choline to be fully replaced and methionine to be decreased by 25-30% of daily requirements. Betaine is considered the most effective organic osmolyte. It accumulates in GIT cells regulating water flux across the intestinal epithelium. Betaine anhydrate can be used to overcome the impact of heat stress. It results in improved weight gain and feed conversion. More importantly, rectal temperature was decreased. Panting, a mechanism of heavily breathing to lose heat via evaporation, was also reduced.

Benefits:

AmphiBETAINE can replace choline & methionine in broiler optimal diets.

AmphiBETAINE is used for animal performance and slaughter characteristics.

AmphiBETAINE can be used to overcome heat stress especially for slow growing broilers. It improves weight gain and feed conversion. It helps decrease rectal temperature and reduce panting.

Ingredients:

Each 1000 grams of AMPHIBETAINE powder contains: Betaine Hydrochloride: $\leq 96\%$



AMPHICHOLINE

Powder

A choline chloride source and a lipotropic agent for poultry and livestock to improve growth and performance and for better milk production and quality in dairy cattle.

Product Description:

AMPHICHOLINE powder is designed to ensure adequate choline chloride supplementation required for normal functioning, growth, production and feed efficiency in poultry and rumen protected choline improves milk yield and milk fat and reduce blood serum non-esterified fatty acids and cholesterol in dairy cattle and buffaloes. Functions of choline chloride are:

Building and maintaining cell structures: Choline is required as a constituent of the phospholipids needed for maturation of the cartilage matrix of the bone.

Fat metabolism of the liver: Choline is referred to as a "lipotropic" factor due to its function of acting on fat metabolism by hastening removal or decreasing deposition of fat in liver

Formation of acetylcholine (essential): Choline is essential for the synthesis of acetylcholine by mitochondria at the presynaptic terminal of the neural synapse, a substance that makes possible the transmission of nerve impulses.

Methyl-group donor (non-essential) via betaine: Choline furnishes labile methyl groups for formation of methionine from homocysteine and of creatine from guanidoacetic acid.

Benefits:

AMPHICHOLINE powder is added to poultry feed to promote growth, improve feed efficiency and feed conversion ratio.

AMPHICHOLINE is used in young chicks to compensate for choline insufficient synthesis.

AMPHICHOLINE powder is used in dairy cattle and buffaloes to improve milk yield and milk fat and reduce blood serum non-esterified fatty acids and cholesterol.

AMPHICHOLINE powder is used in livestock as a "lipotropic factor" to guard against fatty liver.

Ingredients:

Each 1000 grams of AMPHICHOLINE contains:
Choline Chloride: $\leq 60\%$



AMPHIDICAL-P

Powder

A high Phosphorus supplement for better bone development and guarding against leg problems in broiler chicken and other farm animals and to improve growth performance.

Product Description:

Phosphorus (P) is one of the essential minerals for all animals. Because of the key role of P in bone development and mineralization, the requirements of the animal for this mineral are highest during the time the animal is growing. Phosphorus supplementation of poultry feeds is routinely made by the addition of commercial dicalcium phosphate. It is the most widely used phosphorus supplement in animal feeds all over the world. Considered to be a very safe phosphorus source, it is often utilized as a standard reference product in studies of phosphorus availability in different feed ingredients. The phosphorus in dicalcium phosphate is assumed by the nutritionist to be 100% available in commercial feed formulation.

Live weight, weight gain, feed intake, and feed:gain ratio were improved by phosphorus supplementation. Chicks fed added phosphorus diets have higher plasma calcium than low-phosphorus diets. This difference is probably due to a wider calcium:phosphorus ratio at the lowest phosphorus supplementation level. Alkaline phosphatase activity is also decreased by dietary phosphorus supplementation. Plasma calcium, phosphorus, and ALP values, as well as tibia ash percentage and tibia breaking strength were all improved by supplementing broiler feed diets with dicalcium phosphate.

Benefits:

AMPHIDICAL-P powder is used as a high phosphorus source for broiler chicken to guard against skeletal and leg problems.

AMPHIDICAL-P powder may be used to guard against lameness of the bird and bone fractures.

AMPHIDICAL-P powder supplementation may be of value to improve live weight, weight gain, feed intake, and feed:gain ratio. It may be used also to increase plasma calcium.

Ingredients:

Each 1000 grams of AMPHIDICAL-P powder contains: Dicalcium Phosphate 96%.



AMPHILYSINE

Powder

A Lysine feed additive for poultry, livestock and swine. For an ideal amino acid profile, maximum feed efficiency, growth performance and for a better meat yield, quality and taste

Product Description:

Lysine as a "limiting amino acid" for better feed efficiency, growth performance, and meat yield. Therefore, supplementation of lysine to practical poultry diets provides a means for increasing the efficiency of protein utilization, and as a result, N excretion will be reduced. The essential amino acid Lysine is often the limiting dietary amino acid in farm animals that consume predominantly cereal grain-based diets. Accordingly, most studies of the effects of dietary Lysine on farm animals have focused on feed efficiency, growth performance, and meat yield. Also, Glutamine is the preferred fuel for respiration in chicken intestinal cells. Lysine has a valuable effect on "meat quality". Increasing dietary Lysine has been shown to increase final pH and decrease drip loss of broiler breast meat while reducing dietary Lysine has been shown to increase intramuscular fat in the longissimus dorsi muscles of finishing gilts. Also, Lysine has a beneficial effect on "meat taste" and free Glutamine muscle concentration. Glutamine, is an important taste-active component in meat, therefore, appropriate concentrations of Glutamine increases food palatability. However, dietary Glutamine is metabolized by intestinal cells during absorption, with only 5% of the Glutamine appearing in the portal blood. The free-Glutamine concentration in chicken muscle can be increased by the feeding of a Lysine diet.

Benefits:

AMPHILYSINE improves efficiency of protein utilization, growth performance, and meat yield. AMPHILYSINE improves meat quality by reducing intramuscular fat content. AMPHILYSINE improves meat taste and palatability by increasing intramuscular free-glutamine content.

Ingredients:

Each 1000 grams of AMPHILYSINE powder contains: L- Lysine Mono Hydrochloride 98.5 %.



AMPHIMETHIONINE

Powder

Feed additive to cover the nutritional needs of methionine amino acid in poultry and other farm animals for a better poultry performance and growth promotion.

Product Description:

AMPHIMETHIONINE powder is designed to be a methionine donor for poultry and farm animals acting as growth promoter, performance enhancer and to compensate for common methionine deficiency states. AMPHIMETHIONINE powder helps as "Growth Promoter" required for protein synthesis. DL-methionine acts not only in translation initiation and on elongation factors, but it also acts on signaling pathways for the synthesis of proteins. In addition, expression of genes involved in protein degradation can be reduced by effectiveness of dietary methionine. AMPHIMETHIONINE powder also helps as "Performance enhancer" improving all performance parameters such as weight gain, feed efficiency, noble cuts yield, and egg production and quality. AMPHIMETHIONINE powder is of a special importance to improve breast meat weight and consequently body weight of broilers. It was observed that DL-methionine supplementation, significantly improved the performance of broiler, which is partially due to the fact that methionine induce growth by means of growth factors and due to its effect on protein synthesis. AMPHIMETHIONINE powder provides a high level of methionine supplementation highly required by broilers to improve breast meat weight consequently, increasing body weight.

Benefits:

AMPHIMETHIONINE powder may be of great value in the following conditions:

- Promoting poultry and farm animals' growth.
- Improving performance parameters as weight gain, feed efficiency, noble cuts yield, and egg production and quality.
- Increasing breast meat and consequently body weight of broilers.
- Compensating for methionine deficiency states in poultry and farm animals

Ingredients:

Each 1000 grams DL-Methionine feed grade contains: DL-Methionine 99%



AMPHIMONOCAL-P

Powder

A high Calcium and Phosphorus source for better bone development and guarding against leg problems in broiler chicken and other farm animals and to improve the growth performance and gut histomorphology.

Product Description:

According to statistical data, over 27.6% of birds at the mean age of 40 days showed poor locomotion and 3.3% were almost unable to walk resulting in lameness of the bird, limited movement which leads to loss of appetite and low feed consumption, thus resulting poor growth rate, increased culling rate, increased fatality, and increased carcass condemnation and degrading at slaughter.

In general, broiler chicken receives an inadequate amount of calcium and phosphorus. This is because calcium (Ca) and phosphorus (P) from vegetable-based diet only fulfil 30% of the amount required by the body, and only half of it will be absorbed by the intestines. Supplementing inorganic source of calcium and phosphorus such as monocalcium phosphate (MCP) into the commercial diet are potentially favorable in providing the extra Ca and P needed by the body. Birds supplemented with MCP showed significant increase in growth performance (body weight, body weight gain, and feed intake), gut histomorphology (villi height), and bone quality.

Benefits:

AMPHIMONOCAL-P is used as a high calcium and phosphorus source for broiler chicken to guard against skeletal and leg problems such as valgus-varus deformity (VVD), crooked toes, tibial dyschondroplasia (TD), vertebral deformities, twisted legs, osteoporosis of the proximal femur, femoral head necrosis, rupture of the gastrocnemius tendon and rickets.

AMPHIMONOCAL-P may be used to guard against lameness of the bird and limited movement.

AMPHIMONOCAL-P supplementation could be the key to reduce culling of lame broiler birds without affecting the carcass characteristics and meat quality.

Ingredients:

Each 1000 grams of AMPHIMONOCAL-P powder contains: Monocalcium Phosphate 96%.



AMPHARMA



C. AQUACULTURE PRODUCTS

AFLAGIN

Liquid for Aquaculture

*Liquid Blend of Organic Acids, Prebiotics,
Digestive Enzymes and Amino Acid for Aquaculture feed
Acidifier, Digestive and Growth promoter*

Product Description:

AFLAGIN is a blend of short-chain organic acids acting as an acidifier in aquaculture as well as poultry and livestock feeds and is considered as an adequate alternative for antibiotic growth promotants (AGP).

AFLAGIN improves digestibility of the aquaculture feeds. This action is mediated through:

Lowering gastric pH leading to increase pepsin activation.

Lowering diet and intestinal pH, which may increase solubilization of minerals.

Acting as chelating agent which binds various cations within the intestine resulting in increased mineral absorption.

Inhibiting the colonization of harmful microbes in the intestine which may otherwise utilize nutrients meant for the host animal

AFLAGIN increases the feed intake of aquatic species.

AFLAGIN has a strong antimicrobial effect and acts against gram negative bacteria leading to prevention of diseases.

AFLAGIN acts as a feed hygiene and feed quality regulator (anti-mould).

AFLAGIN helps in the decrease of pH in the feed which prevents the ammonia formation in the faecal matter. It also helps in the faster acidification of stomach content towards optimal pH for pepsin digestion, gut acidification, stimulation of enzyme secretion, improves protein digestion and also increases amino acid digestibility.

AFLAGIN improves feed palatability in aquatic animals.

AFLAGIN contains mannan oligosaccharide (MOS) with its well-known antibacterial and immune boosting properties. MOS also has a well-known positive effect on weight gain growth performance.

AFLAGIN also contains beta-glucan producing immune enhancing effects in aquaculture



AFLAGIN also contains papain, a powerful digestive enzyme. It is included to improve protein feed utilization and to reduce the total amount of dissolved solid in the waters, therefore, improving the quality of water media to be well maintained in accordance with the criteria for aquaculture.

Benefits:

AFLAGIN can be used to help improve the digestive process in aquatic animals (shrimp and fish) and feed conversion.

AFLAGIN is a potent weight-gain supplement and a highly effective growth-promoter.

AFLAGIN can also be used to help prevent bacterial, viral and fungal infections in shrimp and fish farming.

Directions for Use:

For Aquaculture administer at the rate of 1-3 ml/1 kg of feed

Ingredients:

Citric acid, Propionic Acid, Lactic Acid, Benzoic Acid, Phosphoric Acid, Acetic Acid, Formic Acid, Artichoke extract, Papain, Beta Glucan, Betaine Hydrochloride, Mannan oligosaccharide (MOS).



AMPHIBACT

Powder for Aquaculture

*Concentrated Source of Probiotics and Enzymes for
Aquaculture And Poultry Industries*

Product Description:

AMPHIBACT contains adequate concentrations of probiotics used to improve water quality and control of bacterial infections in aquatic organisms. Nowadays, there is documented evidence that probiotics can improve the digestibility of nutrients, increase tolerance to stress, and encourage reproduction. Probiotics available in AMPHIBACT are prepared from different and multiple sources as *Lactobacillus acidophilus*, *Lactobacillus plantarum*, *Bifidobacterium bifidum*, *Bacillus Subtilis* fermentation extract, *Aspergillus Niger* fermentation extract.

AMPHIBACT has immunomodulatory properties by improving innate gut immunity through restitution of intestinal barrier function. It is also helpful in preventing pathogenic organisms from colonizing the intestinal mucosa.

AMPHIBACT is helpful to increase the height of intestinal villi and villus height/crypt ratio in poultry, thus increasing the surface area for nutrient absorption.

Benefits:

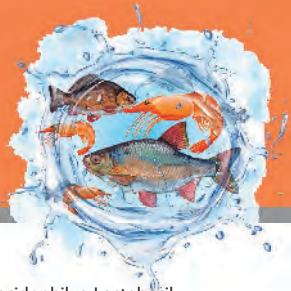
AMPHIBACT is used in aquaculture to help improving performance and immunity level in shrimp and fish.

AMPHIBACT plays an essential role in improving quality of water.

AMPHIBACT also helps as growth promotor and improving digestion in aquatic species.

AMPHIBACT also helps in promoting reproduction of shrimp and fish

AMPHIBACT is helpful to control bacterial infections in aquatic organisms.



Ingredients:

Probiotic Bacterial and Yeast Strains: *Lactobacillus acidophilus*, *Lactobacillus plantarum*, *Bifidobacterium bifidum*, *Bacillus Subtilis* fermentation extract, *Aspergillus Niger* fermentation extract.

Digestive Enzymes: Cellulase and Hemicellulase, Beta-gluconase, Amylase.



AMPHIGOUTGONE

Liquid for Aquaculture

*Concentrated Liquid Blend of Amino Acids and Vitamins
Nutritional Supplement, Growth Promoter and Immune
Booster for Aquaculture*

Product Description:

AMPHIGOUTGONE is specially formulated to improve fish and shrimp sustainable production by reducing feed costs (economic sustainability) and minimizing negative effects on the environment (environmental sustainability). AMPHIGOUTGONE is a balanced combination of an amino acid derivative L-carnitine, amino acids lysine and methionine, synergistic vitamins E, B1 (thiamin), B2 (riboflavin), B3 (niacin) and C (ascorbic acid), choline (choline chloride) and Betaine

AMPHIGOUTGONE is described as "nutritional supplement, growth promoter and immune booster for aquaculture".

AMPHIGOUTGONE contains L-carnitine, an amino acid derivative, that is essential for optimum fish and shrimp growth and performance being capable of the following actions:

As a growth promoter and energy provider, specifically aiding in the utilization of high fat levels in the diet and thus providing a protein sparing effect.

Providing protection against toxic levels of ammonia and xenobiotics.

Alleviating stress related to water temperature extremes and facilitating better acclimation to water temperature changes.

L-carnitine induces muscle structure/texture changes related to higher levels of swimming activity.

L-carnitine has a positive effect on the reproductive performance of the fish, increasing both testis weight and sperm cell concentration per ml

L-carnitine has powerful antioxidant effect increasing hepatic enzyme activities of GSH-Px and the gene expression of GSH-Px

AMPHIGOUTGONE contains amino acids lysine and methionine required for metabolic purposes and growth. They act as building blocks for body protein synthesis (including muscle, organs) and functional proteins (including enzymes, hormones, or immunoglobulins). In addition, methionine has a central role as methyl-group (CH3) donor.

AMPHIGOUTGONE contains a group of synergistic vitamins including:

Vitamin E, essential for growth and reproductive performance of female shrimp improving to reproductive parameters as eggs diameter and number of eggs per female body weight.

Vitamins B1, B2 and B3 required for the building of tissue mass and the periodic process of molting in crustaceans.

Vitamin C which is a powerful antioxidant and immunomodulator for fish/shrimps. It is required for enhanced aquatic animal performance. It is a



strong antioxidant that is capable of scavenging reactive oxygen species. Vitamin C in AMPHIGOUTGONE helps tolerance to toxicants and environmental stressors and improves immune response and reduces oxidative damage to tissues.

AMPHIGOUTGONE contains choline acting as osmoregulator being the precursor of glycine betaine, a compatible osmolyte that can maintain the osmotic balance in shrimps and crabs.

AMPHIGOUTGONE contains betaine known to improve growth rate, survival, and food conversion rate and protein efficiency ratio.

Benefits:

AMPHIGOUTGONE is helpful for aquaculture as:

- Nutritional supplement
- Growth promoter
- Immune booster for aquaculture.

AMPHIGOUTGONE may be used for growth and reproductive performance of female shrimp improving to reproductive parameters as eggs diameter and number of eggs per female body weight.

AMPHIGOUTGONE is important for building of tissue mass and the periodic process of molting in crustaceans.

AMPHIGOUTGONE helps tolerance to toxicants and environmental stressors and improves immune response and reduces oxidative damage to fish and shrimps.

AMPHIGOUTGONE is valuable to maintain the osmotic balance in shrimps and crabs.

AMPHIGOUTGONE is known to improve growth rate, survival, and food conversion rate and protein efficiency ratio in aquatic animals.

Directions for Use:

- For Aquaculture administer at the rate of 1-3 ml/1 kg of feed

Ingredients:

Carnatine, Methionine, Betaine, Choline (Choline chloride), Sorbitol, Niacin, Vitamin E, Vitamin B1, Vitamin B2, L-Lysine, Vitamin C 100%, Potassium Citrate and other patented proprietary mix.



AMPHISEPTOL-PLUS

Liquid for Aquaculture

*A Potent Disinfectant with Bactericidal, Fungicidal,
Virucidal Veridical with Odor-fighting Power for
Aquaculture.*

Product Description:

AMPHISEPTOL-PLUS is a multi-purpose disinfectant and deodorizer effective against bacteria, viruses, and fungi found in aquaculture.

AMPHISEPTOL-PLUS is unique combination of quaternary ammoniums, glutaraldehyde and a specific selection of phytobiotics creating a broad spectrum antimicrobial activity covering a wide range of microorganisms.

AMPHISEPTOL-PLUS is significantly effective against all bacterial, fungal and viral targets even in the presence of interfering organic matters or hard water.

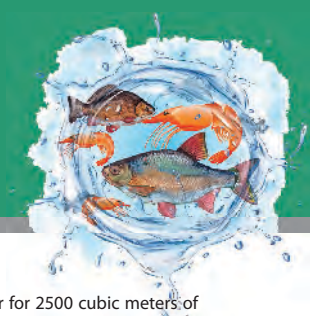
AMPHISEPTOL-PLUS is of a special value as "broad spectrum antiseptic" for aquaculture purposes in both shrimp and fish farms to guard against viral, bacterial, fungal and protozoal infections.

AMPHISEPTOL-PLUS is characterized by a synergistic combination of active ingredients that prevents the emergence of resistant strains and retains its powerful activity in hard water as well as in the presence of organic matter.

Benefits:

AMPHISEPTOL-PLUS is helpful disinfectant and growth promoter for aquaculture being characterized by:

- Broad spectrum antiseptic and disinfectant properties
- Antimicrobial (anti-bacterial, anti-viral, anti-fungal and anti-protozoal) properties
- Immunostimulant effect
- Growth promoter effect for enhancing fish and shrimp growth and production
- Anti-Vibrio properties
- Antioxidant effect
- Dechlorination properties and ballast water treatment efficiency



Directions for Use:

- Water treatment before stocking shrimp: 1 liter for 2500 cubic meters of water
- Periodical water treatment: 1 liter for 4000 cubic meters, use once every 10 days

Ingredients:

Quaternary Ammonium HCL, Sodium Meta Bisulfate, Glutaraldehyde 50%, Peppermint Oil, Eucalyptus Oil, Camphor Oil, Menthol Crystals, and other proprietary micro ingredients including RH 40 Cremophor, Propylene Glycol, BHT, Deionized Water and excipients.



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