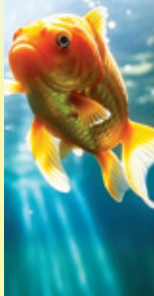




AMPHARMA



PRODUCTS CATALOG





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A dynamic background featuring a splash of clear water against a blue gradient. Numerous bubbles of varying sizes are scattered throughout the scene, creating a sense of movement and freshness. The water flows from the top right towards the bottom left.

**AMPHARMA**

***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, Ctrinis 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, zeorelenone, 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
- Saccharoyces cerevisiae

3. Anti-oxidants

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

4. Micronized Enzymes

- Papain



# AMPHIVET-HPT

## *Liquid*

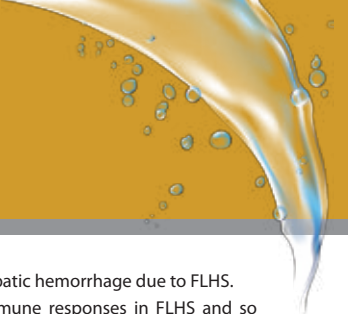
*A Dietetic Liquid Supplement for Correcting Fatty Liver Conditions,  
Preventing Liver Dysfunctions and Digestive Disturbances*

### **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 B<sub>12</sub>.



# 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 B<sub>1</sub> (Thiamin)
  - Vitamin B<sub>2</sub> (Riboflavin) o Vitamin B<sub>3</sub> (Niacin)
  - Vitamin C (Ascorbic acid)
4. Choline (Choline chloride)
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 B<sub>1</sub>, Vitamin B<sub>6</sub>, 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 Methionine-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 B<sub>1</sub>, Vitamin B<sub>6</sub>, 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 H<sub>5</sub>N<sub>1</sub>, 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



# 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 mycotoxicosis (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, coccidiostate, and any other feed additives.

#### **Benefits:**

- Amphi-TOXGONE acts as a powerful and universal toxin binder that helps in the prevention of Aflatoxicosis; multiple mycotoxosis, 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 AD<sub>3</sub>E

50/10/10 & 100/20/20

**Liquid**

*High Concentration Water-Soluble Solution of Vitamins A, D<sub>3</sub> & 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 D<sub>3</sub> 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 D<sub>3</sub> 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 D<sub>3</sub>, 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 D<sub>3</sub>, 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 D<sub>3</sub> 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, zearalenone, 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,  $\beta$ -Glucans, L-Carnitine and Taurine Serving as A Potent Weight Gain Factor, Growth-Promoter and Immune Booster*

### **Product Description:**

AMPHIVITALL liquid is 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  $\beta$ -glucans known as effective antibiotic alternatives in poultry.  $\beta$ -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  $\omega$ -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  $\beta$ -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 mycotoxicoses. 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 mycotoxicoses 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).  $\beta$ -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.  $\beta$ -Glucan has also been shown to enhance immune response by altering the cytokine profiles of chickens.  $\beta$ -Glucans, therefore, may provide a tool for producers trying to reduce or eliminate the use of antibiotics in poultry diets. Supplementation with  $\beta$ -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  $\beta$ -glucan to broiler diet improves the survival rate and feed conversion rate of broilers. Therefore,  $\beta$ -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 Lectin (Agriacus 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-D<sub>3</sub>


## Liquid

*A balanced combination of vitamin D<sub>3</sub>, 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 D<sub>3</sub> liquid is specially designed to supply all required elements for bone health and development. Vitamin D<sub>3</sub> (Cholecalciferol) is the characteristic component that is essential for utilization of all other ingredients. Vitamin D<sub>3</sub> 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 D<sub>3</sub> guards against osteoporosis and fractures. It also guards against common keel bone fractures during the laying period. AMPHIMINERAL D<sub>3</sub> liquid provides the bioactive form of vitamin D<sub>3</sub> (1,25(OH)<sub>2</sub>D<sub>3</sub>) 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)<sub>2</sub>D<sub>3</sub> may contribute to growth plate abnormalities such as tibial dyschondroplasia and rickets. As the basis is in the vitamin D<sub>3</sub> metabolism, it is a better to increase 1,25(OH)<sub>2</sub>D<sub>3</sub> levels rather than dietary Ca to improve Ca homeostasis in ageing laying hens. AMPHIMINERAL D<sub>3</sub> 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 D<sub>3</sub> 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 D<sub>3</sub> 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 D<sub>3</sub> liquid may be essential for healthy bone development and to guard against nutritional skeletal disorders as rickets, osteomalacia and caged layer fatigue

AMPHIMINERAL D<sub>3</sub> liquid may be of value to avoid leg problems in broiler chicken.

AMPHIMINERAL D<sub>3</sub> 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 D<sub>3</sub> 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 D<sub>3</sub> (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  $\omega$ -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 thinning 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 5H<sub>2</sub>O), 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 four-pointed starburst shape, is positioned behind the word 'AMPHARMA'. Below the logo, there are three piles of powder: a yellow pile on the left, a red pile on the right, and a white pile with blue speckles in the foreground. A semi-circular orange shape is partially visible behind the white powder pile.

***B. POULTRY & LIVESTOCK  
POWDER PRODUCTS***

# AMPHIVIT-MAX

## **Powder**

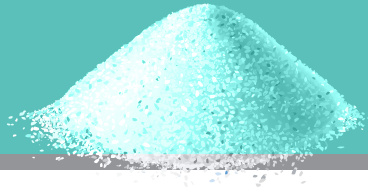
*Synergistic High-Concentration Anabolic Mix of Vitamins and Amino Acids, Potent Weight Gain Factor and Growth-Promoter*

### **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 <sub>7</sub> )      | 2- Vitamin A                                 |
| 3- Vitamin B <sub>1</sub> (thiamin)                   | 4- Vitamin B <sub>2</sub> (riboflavin)       |
| 5- Nicotinic acid (Niacin or vitamin B <sub>3</sub> ) | 6- Vitamin B <sub>5</sub> (Pantothenic acid) |
| 7- Vitamin B <sub>6</sub> (pyridoxine)                | 8- Vitamin B <sub>12</sub> (cobalamin)       |
| 9- Vitamin E  | 10- Vitamin D <sub>3</sub> (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, mycotoxico-sis, 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 mycotoxicosis.
- Guards against ochratoxicosis 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: Betaien 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 D<sub>3</sub>, 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 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 B<sub>1</sub>
- Vitamin B<sub>2</sub>
- Vitamin B<sub>6</sub>
- Sorbitol 70%
- Colloidal Silica as an anti-caking agent.



# AMPHIPROFAT

## **Powder**

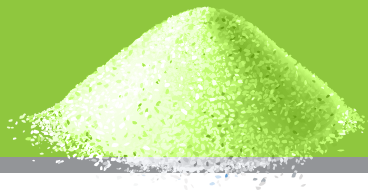
### *An Immune Enhancer and Weight Gain Factor*

#### **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
- Amphi-PROFAT contains 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.
- Amphi-PROFAT contains DMG which is a nutritional supplement that promotes growth and enhances carcass yield and decreases oxidation and mortality in birds and animals. DMG 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 helps to promote growth and increase FCR, enhancing and speeding up fertility. DMG, 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.
- Amphi-PROFAT helps:
  1. Improved total body weight
  2. Increased meat formation and lowered abdominal fat pad (better meat/fat ratio).



3. Better protein digestibility.
4. Powerful antibacterial effect.
5. Increased fat digestibility
6. Shortened feeding period
7. Reduced mortality

#### 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 D <sub>3</sub> |
| 3. Vitamin E               | 4. Vitamin K <sub>3</sub> |
| 5. Vitamin B <sub>1</sub>  | 6. Vitamin B <sub>6</sub> |
| 7. Vitamin B <sub>12</sub> | 8. Nicotinic Acid         |
| 9. Calcium Pantothenate    |                           |

IV. Minerals

- |                           |                            |
|---------------------------|----------------------------|
| 1. Zinc Gluconate         | 2. Sodium butyrate         |
| 3. DL-methionine          | 4. Sorbitol                |
| 6. Vitamin B <sub>6</sub> | 7. Vitamin B <sub>12</sub> |
| 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**

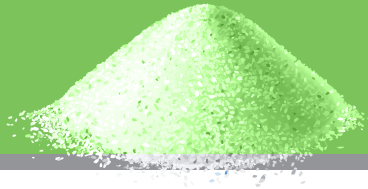
### *Immune Enhancer and Anti-viral Agent*

#### **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  $\beta$ -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:**

- Amphi-ZYME COMPLEX powder is of value to improve poultry, livestock, swine and aquaculture performance parameters (poultry body weight gain (BWG), feed conversion ratio (FCR) and feed energy supply).
- Amphi-ZYME COMPLEX powder of help to maximize digestibility of nutrients and absorption efficiency of all major nutritive components of feedstuffs (carbohydrates, proteins and fats). Therefore, it improves nutrient utilization in poultry, livestock, swine and aqua feed. It helps to improve ruminal digestibility of crude protein and milk production by cows. It helps degrade anti-nutritional factors in diet and reduces viscosity.
- Amphi-ZYME COMPLEX powder can be used to reduce feed cost due to better



digestion and absorption of feedstuffs and better nutrient utilization and assimilation.

- Amphi-ZYME COMPLEX powder has potential to improve the growth performance, ATTD (apparent total tract digestibility) of dry matter of nutrients, and gut health of weaned pigs fed a corn-soybean meal (SBM)-based diet in the absence of antibiotics growth promoters.
- Amphi-ZYME COMPLEX powder can be used to improve absorption of feedstuffs in poultry by improving villus height in the duodenum, width, and crypt depth in the jejunum and the number of goblet cells in the ileum. This will be positively reflected in form of reduced feed cost. It helps in preventing digestive problems by guarding against pathogenic bacterial invasion to damaged GI tract.
- Amphi-ZYME COMPLEX powder helps to complement the enzymes insufficiently produced by the bird (amylases and proteases) and to provide those enzymes which are not synthesized by them (cellulases).
- Amphi-ZYME COMPLEX powder can be used in aqua feed to increase the feed utilization and digestibility, enhance growth performance and optimize whole-body composition, promote immune performance and pathogen resistance and to improve fish microbiota.

#### **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:	100000000 Units
Protease:	2000000 Units
Lipase:	60000 Units
Phytase:	5000000 Units
Galactosidases:	260000 Units
Mannanase:	220000 Units.



# AMPHIZYME-P

## **Powder**

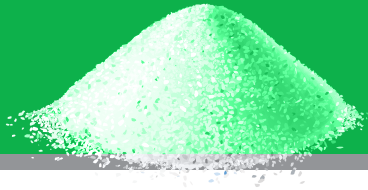
*Unique High-Enzymatic Activity Phytase  
Feed Additive for Animals & Poultry Improves Digestibility  
of Nutrients and Helps Promote Growth*

### **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 through 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  $\beta$ -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*

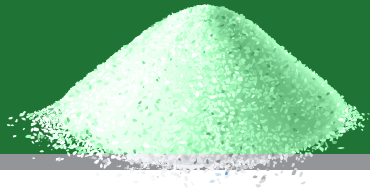
*A hydrated highly nutritious gel of betaine, multi-vitamins, amino acids, electrolytes, minerals and trace elements as a complementary feed required for the development and survival of newly hatched chicks in different stressful conditions.*

### **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-K<sub>3</sub>

## Powder

*Concentrated Water-Soluble Source of Vitamin K for Poultry*

### Product Description:

- Amphi-VIT K<sub>3</sub> is a high-concentration, water-soluble Vitamin K<sub>3</sub> 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 K<sub>3</sub>) 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 K<sub>3</sub> 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 K<sub>3</sub> and excipients.



# AMPHIFLU-EX

## Powder

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

#### **Product Description:**

**AMPHIFLU-EX** 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** is characterized by inclusion of Idotimod, an immune system enhancer that promotes the production of interferon and antibodies. **AMPHIFLU-EX** contains also Taurine serving as immune-boosting, muscle building and anti-inflammatory agent. Methionine-Chelated Zinc is included in **AMPHIFLU-EX** for improving performance, feed intake, and muscle gain and also to enhance immunity during infections. **AMPHIFLU-EX** contains a combination of the most important vitamins such as Vitamin B<sub>6</sub>, 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 B<sub>6</sub> as an essential co-enzyme during stress and infection. **AMPHIFLU-EX** includes also  $\gamma$  aminobutyric acid (GABA) serving as anti-stress neurotransmitter during infection and heat stress and Immunomodulator. Calcium Carbasalate included in **AMPHIFLU-EX** acts as an anti-stress agent with anti-inflammatory, antipyretic and analgesic properties. All ingredients in **AMPHIFLU-EX** 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** can be used before and after vaccinations to promote the production of antibodies.
- **AMPHIFLU-EX** can be used as prophylactic or adjunctive supplement during viral disease such as ND, IB, IBD, and proventriculitis of poultry.
- **AMPHIFLU-EX** provides excellent support in stressful conditions, low resistance against disease and infections, and loss of appetite and weakness.
- **AMPHIFLU-EX** 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:**

Pidotimod, Taurine, Methionine-Chelated Zinc, Vitamin E, Vitamin B<sub>6</sub>,  $\gamma$  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 gumboro 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..



# AMPHIGRO-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 promoter 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 Subtilus 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 (CH<sub>3</sub>) 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.

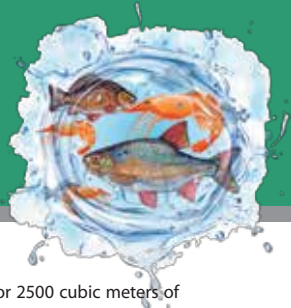
AMPHISEPTOL-PLUS is of a special value as "broad spectrum antiseptic" for aquaculture purposes in both shrimp and fish farms to guard against viral, bacterial, fungal and protozoal infections.

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.





# AMPHARMA



***D. PET PRODUCTS***

# AMPHIPET

## Maximum Strength Nanoemulsion

**spray**

*Advanced nanoemulsion liquid additive designed to fortify dry and wet pet food with essential nutrients including vitamins, minerals, probiotics, prebiotics, enzymes, amino acids, nutraceuticals and immune boosters for optimal health and well-being*

### **Ingredients:**

*Each 100 ml of AmphipET Maximum Strength spray contains*

**1- Vitamins:** Ascorbic Acid (Vitamin C), Vitamin A (Retinyl acetate), Vitamin E (dl- $\alpha$ -Tocopheryl acetate), Mixed Tocopherols, Folic Acid, Vitamin B1 (Thiamine), Vitamin B12 (Cobalamin), Vitamin B2 (Riboflavin), Vitamin B3 (Niacin), Vitamin B5 (Calcium Pantothenate), Vitamin B6 (Pyridoxine HCl), Vitamin K<sub>3</sub> (Menadione), Vitamin D<sub>3</sub> (Cholecalciferol) and Choline Chloride (vitamin-like quaternary ammonium essential nutrient).

**2- Minerals (Chelated):** Chelated Zinc, Chelated Copper, Chelated Manganese, Chelated Iron, Selenium Glycinate, Magnesium Glycinate, Potassium Iodide and Potassium Citrate.

**3- Probiotics:** Enterococcus faecium, Lactobacillus acidophilus, Bacillus licheniformis, Bacillus coagulans, Lactobacillus plantarum and Bacillus subtilis

**4- Prebiotics:** FOS (Fructo-oligosaccharide), MOS (Mannan Oligosaccharide) and Beta Glucan

**5- Enzymes:** Protease (Papain), Lipase, Amylase, Mannanase,  $\alpha$ -Galactosidase,  $\beta$ -Glucanase, Pectinase, Phytase, Xylanase and Cellulase

**6- Amino Acids and Proteins:** Methionine, Lysine, Taurine Amino Acid Powder, Amino Acid Mix (80%), Protein Peptides and Collagen Peptides Powder

**7- Nutraceuticals:** MSM Powder, Glucosamine Sulfate Powder, Chondroitin Sulfate Powder, HMB Powder, Turmeric Extract (Curcumin), CLA Powder, Omega 3, 6 and 9 and Betaine HCl

**8- Preservatives, Stabilizers and Antioxidants:** Sorbic Acid, Formic Acid, Phosphoric Acid (75%), Citric Acid (anhydrous), Ascorbic Acid (Vitamin C), Ascorbyl Palmitate, Tartaric Acid, Lactic Acid and Disodium EDTA

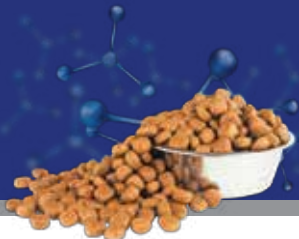
**9- Carrier and Delivery System:** Water-Oil Emulsion Carrier, Polyethylene Glycol, Food-grade Dextrin and MCT Oil

**10- Flavoring Agents:** Natural Salmon Flavor

### **Product Description:**

*AmphipET Maximum Strength spray* is designed to be sprayed directly on dry food kibbles or mixed with pet wet food, providing essential probiotics, enzymes, prebiotics, vitamins, minerals, and amino acids that support your pet's digestive health, immune system, and overall vitality.

*AmphipET Maximum Strength spray* is a premium liquid feed additive, manufactured using cutting-edge nanoemulsion technology to ensure superior bioavailability, rapid absorption and enhanced palatability. It also ensures improved animal growth, better-feed utilization and more efficient nutrient conversion. In addition, nanomaterials



can help improve digestion and absorption of nutrients in animals, resulting in better overall metabolism and physiology. This advanced formulation ensures that your pet receives the full benefit of each carefully selected component, even in small doses.

**AmphiPET Maximum Strength spray**, by applying nanoemulsified particles have a significantly larger surface area, facilitating faster digestion and uptake through the intestinal lining.

**AmphiPET Maximum Strength spray**, by applying nanoencapsulation technique, probiotics are dispersed into outer coats to shield them from environmental conditions.

**AmphiPET Maximum Strength spray** provides a probiotic mixture including *Bacillus subtilis* and *Bacillus licheniformis* improving the fecal score, reducing nitrogen fermentation products in feces, and reducing fecal odor in dogs.

**AmphiPET Maximum Strength spray** contains MOS prebiotic known to boost cell-mediated immune response in dogs and improves lipid profile. It helps also increase the population of colonic beneficial bacteria and also prevents binding of pathogenic bacteria in dogs.

**AmphiPET Maximum Strength spray** contains beta-glucan yeast (immune active compound extracted from *S. cerevisiae*) that allows better intestinal immune functions.

**AmphiPET Maximum Strength spray** contains multiple vitamins and chelated minerals that help maintain essential metabolic functions in dogs and prevent deficiency disorders.

**AmphiPET Maximum Strength spray** contains essential anti-oxidants such as ascorbic acid (vitamin C), vitamin E and mixed tocopherols.

**AmphiPET Maximum Strength spray** contains numerous nutraceuticals; each has its own importance for dog's health. These include:

- 1- MSM as a "cartilage support". MSM works synergistically with glucosamine/chondroitin.
- 2- Glucosamine and chondroitin are chondroprotectants for healthy joints. They act as anti-inflammatory agents and help joint lubrication for senior pets.
- 3- HMB improves muscle performance and decreases recovery time from exercise, HMB increases protein retention in muscles. HMB supplementation improves muscle performance in canines also, reduces muscle damage in canines
- 4- Turmeric Extract (Curcumin) has significant anti-oxidant and anti-inflammatory effects in dogs.
- 5- Conjugated linoleic acid (CLA) used for dogs results in higher values of metabolizable energy. CLA helps to reduce body fat accumulation in dogs.
- 6- Omega 3, 6, 9 "Omegas" provide energy, aid in fat-soluble vitamin absorption, modulate inflammation, act as a precursor to eicosanoids and prostaglandins, serve structural roles as a component of cell membranes, promote healthy growth and development, affect skin and coat health
- 7- Betaine is required for renal health.

#### **Product Benefits:**

- **AmphiPET Maximum Strength spray** helps support digestive health by its inclusion to:
  - Multi-strain probiotics.
  - Digestive enzymes.

- **AmphiPET Maximum Strength spray** contains multi-strain probiotics helping in the following conditions:

- Improve clinical remission, suppress inflammation, and increase epithelial barrier function in dogs diagnosed with IBD.
- Accelerate clinical recovery and intestinal microbiota normalization in dogs with acute hemorrhagic diarrhea.

- **AmphiPET Maximum Strength spray** can boost immune function and inflammation control by its inclusion of:

- Yeast beta-glucans and MOS acting as immune modulators.
- Vitamin C, Vitamin E, and mixed tocopherols working as potent antioxidants.

- **AmphiPET Maximum Strength spray** helps as neurological and metabolic support by its inclusion to:

- B-complex vitamins (B1-B12) essential for energy metabolism, nerve conduction, neurotransmitter synthesis, and stress management.
- Choline and betaine play key roles in liver function, fat metabolism, and neurotransmission, especially important for senior or stressed animals.

- **AmphiPET Maximum Strength spray** may be essential for skeletal and muscular development by its inclusion to:

- Chelated minerals (zinc, manganese, copper, iron) provided in a highly bioavailable form for better bone development, wound healing, enzyme function, and oxygen transport.
- Vitamin D<sub>3</sub> supports calcium absorption and bone integrity, while vitamin K<sub>3</sub> helps in blood clotting and bone protein activation.

AmphiPET Maximum Strength spray helps skin, coat and cellular health by its inclusion to:

- Vitamin A supporting epithelial repair, vision, and immune barrier function.
- Zinc and vitamin E promoting skin integrity, faster healing, and a glossy coat.
- Essential amino acids like lysine and methionine are required for protein synthesis, muscle maintenance, and immune responses.

- **AmphiPET Maximum Strength spray** helps growth and recovery by its inclusion to:

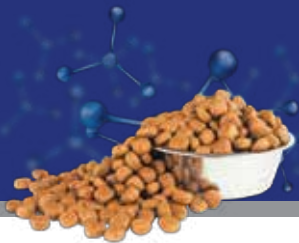
- Protein peptides and a concentrated amino acid mix.

- **AmphiPET Maximum Strength spray** is used for dogs of all ages.

- **AmphiPET Maximum Strength spray** may be used for improvement and prevention of atopic dermatitis, inflammatory bowel disease, and osteoarthritis in dogs by its inclusion to beta-glucans for its immunomodulatory and anti-inflammatory effects.

- **AmphiPET Maximum Strength spray** may be used to improve diabetic control in pets. Essential anti-oxidants such as ascorbic acid (vitamin C), vitamin E and mixed tocopherols may help as anti-diabetics for pets

- **AmphiPET Maximum Strength spray** may be used to guard against cardiomyopathy in



dogs by its inclusion to amino acids methionine and lysine required to prevent taurine deficiency that may be responsible for such case

- **AmphiPET Maximum Strength spray** may be of value for aging dogs by its inclusion to essential amino acids required to alleviate aging-associated reductions in the mass and function of muscles and bones

- **AmphiPET Maximum Strength spray** includes several omegas. They, especially EPA and DHA, have a number of therapeutic uses in dogs include:

- Supplemental fish oil is used as adjunctive therapy for inflammatory conditions, such as inflammatory skin disease and osteoarthritis, cancer, hyperlipidemia, and cardiac disease.
- DHA is supplemented in growth diets to support optimal retinal function and neuronal development.
- Supplementation with fatty acids, including LA and EPA/DHA, is used to treat dermatologic disease.

- **AmphiPET Maximum Strength spray** contains betaine helpful in renal diseases. Betaine has anti-inflammatory properties. It also reduces levels of serum uric acid and improves kidney function in cases of hyperuricemia.

- **AmphiPET Maximum Strength spray** may offer these benefits:

- **Enhances Digestion:** Rich enzyme blend improves the breakdown of food for optimal nutrient absorption.
- **Supports Gut Health:** High-potency probiotics and prebiotics promote a balanced gut microbiome.
- **Boosts Immunity:** Includes immune-stimulating components like yeast beta-glucans and vitamins.
- **Promotes Growth and Vitality:** Enriched with essential amino acids and chelated minerals.
- **Improves Skin and Coat:** With vitamins A, D<sub>3</sub>, and E plus chelated zinc.
- **Anti-Stress and Recovery Support:** B-vitamin complex and choline support nervous system and recovery.

#### **Directions For Use:**

- **Method of Application:**

- Spray directly on your pet's dry food kibbles before feeding.
- Shake well before use. Ensure food is evenly coated with the spray.

- **Recommended Daily Dose:**

- Small Pets (<10 kg): 0.5 – 1 ml
- Medium Pets (10–25 kg): 1 – 2 ml
- Large Pets (>25 kg): 2 – 3 ml



# AMPHIPET

## Skin and Coat

**spray**

*Advanced nanoemulsion liquid additive designed to fortify dry and wet pet food with essential nutrients required for optimal skin and coat health and vitality including vitamins, minerals, probiotics, prebiotics, amino acids, and nutraceuticals.*

### **Ingredients:**

*Each 100 ml of AmphiPET Maximum Strength spray contains*

**1- Vitamins:** Vitamin E, Vitamin A, Vitamin B-complex (Biotin), Vitamin C, and Vitamin E.

**2- Minerals (Chelated):** Chelated Zinc and Chelated Copper.

**3- Probiotics:** Enterococcus faecium, Lactobacillus acidophilus, Bacillus licheniformis, Bacillus coagulans, Lactobacillus plantarum and Bacillus subtilis

**4- Prebiotics:** FOS (Fructo-oligosaccharide), MOS (Mannan Oligosaccharide) and Beta Glucan

**5- Enzymes:** Methionine, Lysine, Amino Acid Mix (80%), Protein Peptides and Collagen Peptides Powder:

**6- Nutraceuticals:** Omega 3, 6 and 9

**7- Carrier & Delivery System:** Water-Oil Emulsion Carrier, Polyethylene Glycol, Food-grade Dextrin and MCT Oil

**8- Flavoring Agents:** Natural Salmon Flavor

### **Product Description:**

**1- AmphiPET Skin and Coat spray** is a scientifically formulated supplement designed to support healthy skin, a glossy coat, and overall vitality in dogs. It provides fatty acids, vitamins, chelated minerals, amino acids, peptides, and prebiotics/probiotics to promote strong skin barrier function, reduce shedding, and enhance coat brilliance.

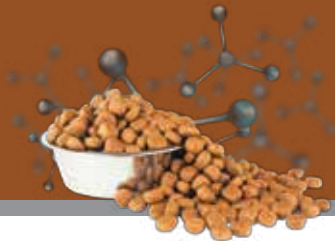
**2- AmphiPET Skin and Coat spray** is a premium liquid feed additive, manufactured using cutting-edge nanoemulsion technology to ensure superior bioavailability, rapid absorption and enhanced palatability. It also ensures better-feed utilization and more efficient nutrient conversion. This advanced formulation ensures that your pet receives the full benefit of each carefully selected component, even in small doses.

**3- AmphiPET Skin and Coat spray**, by applying nanoemulsified particles have a significantly larger surface area, facilitating faster digestion and uptake through the intestinal lining.

**4- AmphiPET Skin and Coat spray**, by applying nanoencapsulation technique, probiotics are dispersed into outer coats to shield them from environmental conditions.

**5- AmphiPET Skin and Coat spray** is easily applied by spraying onto dry kibbles or mixing with wet food, this supplement ensures uniform distribution, better taste, and stress-free daily use.

**6- AmphiPET Skin and Coat spray** contains omega 3, 6 and 9 provide energy, aid in fat-soluble vitamin absorption, modulate inflammation, act as a precursor to eicosanoids and prostaglandins, serve structural roles as a component of cell membranes, promote healthy growth and development, affect skin and coat health



### **Product Benefits:**

**AmphiPET Skin and Coat spray** helps skin, coat & cellular health:

- Vitamin A supports epithelial repair, vision, and immune barrier function.
- Zinc and vitamin E promote skin integrity, faster healing, and a glossy coat.
- Essential amino acids like lysine and methionine are required for protein synthesis, muscle maintenance, and immune responses.

**AmphiPET Skin and Coat spray** includes several omegas. They, especially EPA and DHA, have a number of therapeutic uses in dogs include:

- Supplemental fish oil is used as adjunctive therapy for inflammatory skin diseases.
- Supplementation with fatty acids, including LA and EPA/DHA, is used to treat dermatologic disease.

**AmphiPET Skin and Coat spray** helps healthy skin and glossy coat through:

- Omega 3-6-9: maintain skin hydration, reduce dryness, support shiny coat.
- Vitamin E: natural antioxidant that protects skin cells from oxidative stress.
- Vitamin A: promotes healthy skin regeneration.
- Vitamin C: supports collagen formation.

**AmphiPET Skin and Coat spray** helps strong hair and nail growth through:

- Vitamin B-complex (Biotin): strengthens hair follicles, reduces shedding, and improves nail strength.
- Collagen Peptides & Protein Peptides: maintain skin elasticity and coat smoothness.

**AmphiPET Skin and Coat spray** may be helpful in the following conditions:

- Dogs with dull coat, excessive shedding, or dry/itchy skin.
- Pets with slow hair growth or brittle nails.
- Show pets needing coat shine and density.
- Routine wellness supplement for long-term skin and coat health.

### **Directions For Use:**

#### **Method of Application:**

- Spray directly on your pet's dry food kibbles before feeding.
- Shake well before use. Ensure food is evenly coated with the spray.

#### **Recommended Daily Dose:**

- Small Pets (<10 kg): 0.5 – 1 ml
- Medium Pets (10–25 kg): 1 – 2 ml
- Large Pets (>25 kg): 2 – 3 ml



# AMPHIPET

## Joint Health

**spray**

*Advanced nanoemulsion liquid additive designed to fortify dry and wet pet food with essential nutrients required for supporting joint mobility and flexibility including Glucosamine Sulfate, Chondroitin Sulfate, MSM (Methylsulfonylethane), Turmeric Extract (Curcumin), Omega 3,6 and 9, HMB, Collagen Peptides and Chelated Minerals (Chelated Zinc, Copper, Manganese)*

### **Ingredients:**

*Each 100 ml of AmphiPET Maximum Strength spray contains*

**1- Minerals (Chelated):** Chelated Zinc, Chelated Copper and Chelated Manganese.

**2- Vitamins:** Vitamin C - Vitamin D3

**3- Amino Acids & Proteins:** Collagen Peptides Powder

**4- Nutraceuticals:** MSM Powder, Glucosamine Sulfate Powder, Chondroitin Sulfate Powder, Turmeric Extract (Curcumin) and Omega 3, 6 and 9.

**5- Carrier & Delivery System:** Water-Oil Emulsion Carrier, Polyethylene Glycol, Food-grade Dextrin and MCT Oil

**6- Flavoring Agents:** Natural Salmon Flavor

### **Product Description:**

**AmphiPET Joint Support spray** is a comprehensive joint-support formula designed to maintain mobility, flexibility, and comfort in dogs. It combines natural joint protectants, anti-inflammatory extracts, omega fatty acids, collagen, and chelated minerals to help protect cartilage, reduce stiffness, and support long-term joint health

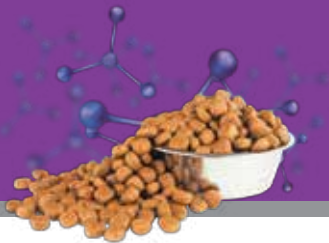
**AmphiPET Joint Support spray** is a premium liquid feed additive, manufactured using cutting-edge nanoemulsion technology to ensure superior bioavailability, rapid absorption and enhanced palatability.

**AmphiPET Joint Support spray** allows incorporating nanomaterials into animal feed leading to improved animal growth, better-feed utilization and more efficient nutrient conversion. In addition, nanomaterials can help improve digestion and absorption of nutrients in animals, resulting in better overall metabolism and physiology. This advanced formulation ensures that your pet receives the full benefit of each carefully selected component, even in small doses.

**AmphiPET Joint Support spray**, by applying nanoemulsified particles have a significantly larger surface area, facilitating faster digestion and uptake through the intestinal lining.

**AmphiPET Joint Support spray** contains numerous nutraceuticals; each has its own importance for healthy, mobile and flexible joints. These include:

- 1- MSM as a "cartilage support". MSM works synergistically with glucosamine/chondroitin.
- 2- Glucosamine and chondroitin are chondroprotectants for healthy joints. They act as anti-inflammatory agents and help joint lubrication for senior pets.
- 3- HMB improves muscle performance and decreases recovery time from exercise, HMB increases protein retention in muscles. HMB supplementation improves muscle performance in canines also, reduces muscle damage in canines.



4- Turmeric Extract (Curcumin) has significant anti-oxidant and anti-inflammatory effects in dogs. Curcumin improves feed quality, prolongs the preservation of the feed and stimulates erythropoiesis.

5- Omega 3, 6, 9: "Omegas" provide energy, aid in fat-soluble vitamin absorption, modulate inflammation, act as a precursor to eicosanoids and prostaglandins, serve structural roles as a component of cell membranes, promote healthy growth and development and support health joints

**AmphiPET Joint Support spray** contains vitamin C helping collagen production and reducing inflammation. It also contains vitamin D3 that enhances calcium absorption. Both are vital for maintaining strong bones and healthy joints in pets.

#### **Product Benefits:**

**AmphiPET Joint Support spray** can be used to help proper skeletal, joint and muscular development:

- Chelated minerals (zinc, manganese, copper, iron) are provided in a highly bioavailable form for better bone development, wound healing, enzyme function, and oxygen transport.
- Vitamin D<sub>3</sub> supports calcium absorption and bone integrity, while vitamin K<sub>3</sub> helps in blood clotting and bone protein activation.
- Glucosamine Sulfate: Acting as building block of cartilage, helping repair and maintaining joint structure.
- Chondroitin Sulfate: Enhances joint lubrication and reduces cartilage breakdown.
- MSM (Methylsulfonylmethane): Natural sulfur source supporting collagen synthesis and reducing inflammation

**AmphiPET Joint Support spray** helps support joint lubrication, reduce inflammation, and maintain healthy connective tissue due to its inclusion of several omegas.

**AmphiPET Joint Support spray** helps reduce joint stiffness and oxidative stress owing to the presence of turmeric extract .

**AmphiPET Joint Support spray** helps improve cartilage resilience, joint elasticity, and recovery through included collagen peptides.

#### **Directions For Use:**

##### **Method of Application:**

- Spray directly on your pet's dry food kibbles before feeding.
- Shake well before use. Ensure food is evenly coated with the spray.

##### **Recommended Daily Dose:**

- Small Pets (<10 kg): 0.5 – 1 ml
- Medium Pets (10–25 kg): 1 – 2 ml
- Large Pets (>25 kg): 2 – 3 ml



# AMPHIPET

## Digestive Support

**spray**

*Advanced nanoemulsion liquid additive designed to fortify dry and wet pet food with essential nutrients required for supporting overall digestive health and enhancing nutrient absorption including enzymes, chelated minerals, probiotics, prebiotics, organic acids, amino acids, and nutraceuticals*

### **Ingredients:**

*Each 100 ml of AmphipET Maximum Strength spray contains*

**1- Enzymes:** Protease (Papain), Lipase, Amylase, Mannanase,  $\beta$ -Glucanase, Pectinase, Xylanase, Phytase and  $\alpha$ -Galactosidase

**2- Prebiotics:** FOS (Fructo-oligosaccharide), MOS (Mannan Oligosaccharide) and Beta Glucan

**3- Probiotics:** Enterococcus faecium, Lactobacillus acidophilus, Bacillus licheniformis, Bacillus coagulans, Lactobacillus plantarum and Bacillus subtilis

**4- Organic acids:** Formic Acid, Lactic Acid, Citric Acid, Phosphoric Acid, Ascorbic Acid and Sorbic Acid

**5- Amino Acids & Proteins:** Glutamine, Taurine and Amino Acid Mix.

**6- Nutraceuticals:** Turmeric Extract (Curcumin) and Omega 3, 6 and 9 and Betaine HCl

**7- Chelated Minerals:** Zinc, Copper, Manganese and Iron

**8- Carrier & Delivery System:** Water-Oil Emulsion Carrier, Polyethylene Glycol, Food-grade Dextrin and MCT Oil

**9- Flavoring Agents:** Natural Salmon Flavor

### **Product Description:**

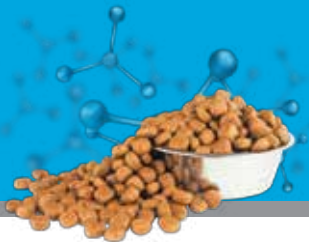
**AmphipET Digestive Support spray** is a nanoemulsion concentrated, multi-component nutritional supplement designed to be applied to pet food via spraying. It contains a synergistic blend of digestive enzymes, prebiotics, probiotics, organic acids, essential amino acids, nutraceuticals and chelated minerals. This comprehensive formulation is intended to support overall digestive health, enhance nutrient absorption, and promote well-being when used as part of a balanced diet. The spray application ensures easy mixing with both dry kibble and wet food.

**AmphipET Digestive Support spray** is manufactured using cutting-edge nanoemulsion technology to ensure superior bioavailability, rapid absorption and enhanced palatability.

**AmphipET Digestive Support spray** allows incorporating nanomaterials into animal feed leading to improved animal growth, better-feed utilization and more efficient nutrient conversion. It also helps improve digestion and absorption of nutrients, resulting in better overall metabolism. This advanced formulation ensures that your pet receives the full benefit of each carefully selected component, even in small doses.

**AmphipET Digestive Support spray**, by applying nanoemulsified particles facilitates faster digestion and uptake through the intestinal lining.

**AmphipET Digestive Support spray**, by applying nanoencapsulation technique, probiotics are dispersed into outer coats to shield them from environmental conditions.



**AmphiPET Digestive Support spray** provides a probiotic mixture including *Bacillus subtilis* and *Bacillus licheniformis* improving the fecal score, reducing nitrogen fermentation products in feces, and reducing fecal odor in dogs. These multi-strain probiotics proved to improve clinical remission, suppress inflammation, and increase epithelial barrier function in dogs diagnosed with IBD.

**AmphiPET Digestive Support spray** contains MOS prebiotic known to boost cell-mediated immune response in dogs and improves lipid profile. It helps also increase the population of colonic beneficial bacteria and also prevents binding of pathogenic bacteria in dogs.

**AmphiPET Digestive Support spray** contains all required nutrient elements required for proper digestive function in pets these include:

- 1- Digestive Enzymes helping break down proteins, fats, and starches for improved digestion.
- 2- Fiber-digesting enzymes helping reduce gut viscosity, break down fibrous anti-nutrients therefore, improve energy and nutrient use.
- 3- Prebiotics helping increase beneficial gut bacteria, support immune function, and can help manage cholesterol and blood sugar.
- 4- Multi-strain probiotics help establish a healthy gut flora, reduce harmful bacteria, improve nutrient absorption, and enhance stool consistency.
- 5- Acidifiers & Antioxidants helping to support desired gastric acidity, act as preservatives, and fight oxidative stress.
- 6- Nutraceuticals support stomach acid, provide highly absorbable minerals, and aids gut and cardiovascular health.

#### **Product Benefits:**

- **AmphiPET Digestive Support spray** helps support digestive health.
- **AmphiPET Digestive Support spray** helps improve symptoms of IBS in dogs.
- **AmphiPET Digestive Support spray** can boost immune function & inflammation control.
- **AmphiPET Digestive Support spray** promotes a healthy gut environment.
- **AmphiPET Digestive Support spray** provides targeted nutritional support.

#### **Directions For Use:**

##### **Method of Application:**

- Spray directly on your pet's dry food kibbles before feeding.
- Shake well before use. Ensure food is evenly coated with the spray.

##### **Recommended Daily Dose:**

- Small Pets (<10 kg): 0.5 – 1 ml
- Medium Pets (10–25 kg): 1 – 2 ml
- Large Pets (>25 kg): 2 – 3 ml



# AMPHIPET

## Immune Booster

**spray**

*Advanced nanoemulsion liquid additive designed to fortify dry and wet pet food with essential nutrients required for boosting immune system including vitamins, minerals, prebiotics, amino acids, and nutraceuticals*

### **Ingredients:**

*Each 100 ml of AmphipET Maximum Strength spray contains*

**1- Vitamins:** Ascorbic Acid (Vitamin C), Vitamin A (Retinyl acetate), Vitamin E (dl- $\alpha$ -Tocopheryl acetate), Mixed Tocopherols, Folic Acid, Vitamin B1 (Thiamine), Vitamin B12 (Cobalamin), Vitamin B2 (Riboflavin), Vitamin B3 (Niacin), Vitamin B5 (Calcium Pantothenate) and Vitamin B6 (Pyridoxine HCl).

**2- Minerals (Chelated):** Chelated Zinc, Chelated Copper, Selenium Glycinate and Potassium Iodide.

**3- Prebiotics:** FOS (Fructo-oligosaccharide), MOS (Mannan Oligosaccharide) and Beta Glucan

**4- Amino Acids & Proteins:** Lysine, Methionine, Taurine and Amino Acid Mix.

**5- Nutraceuticals:** Turmeric Extract (Curcumin) and Omega 3, 6 and 9.

**6- Carrier & Delivery System:** Water-Oil Emulsion Carrier, Polyethylene Glycol, Food-grade Dextrin and MCT Oil

**7- Flavoring Agents:** Natural Salmon Flavor

### **Product Description:**

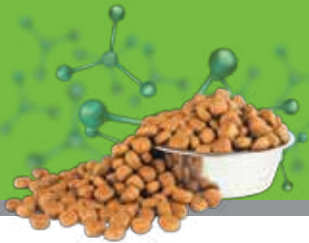
**AmphiPET Immune Booster spray** is a premium immune-support formula for pets, designed to strengthen natural defenses, protect against infections, and promote vitality. It combines antioxidants, omega fatty acids, prebiotics, vitamins, chelated minerals, amino acids and turmeric extract to enhance immune response and overall well-being.

**AmphiPET Immune Booster spray** is a premium liquid feed additive, manufactured using cutting-edge nanoemulsion technology to ensure superior bioavailability, rapid absorption and enhanced palatability. This also leads to better-feed utilization and more efficient nutrient conversion. In addition, nanomaterials can help improve digestion and absorption of nutrients in animals, resulting in better overall metabolism and physiology. This advanced formulation ensures that your pet receives the full benefit of each carefully selected component, even in small doses and facilitates faster digestion and uptake through the intestinal lining.

**AmphiPET Immune Booster spray** is designed to be sprayed directly on dry food kibbles, providing vitamins, minerals, prebiotics, amino acids and nutraceuticals that support your pet's digestive health, immune system, and overall vitality.

**AmphiPET Immune Booster spray** contains MOS prebiotic known to boost cell-mediated immune response in dogs and improves lipid profile. It helps also increase the population of colonic beneficial bacteria and also prevents binding of pathogenic bacteria in both dogs.

**AmphiPET Immune Booster spray** contains amino acids and proteins that play an essential role in supporting immune system including:



- Methionine: Supports antioxidant production (glutathione).
- Lysine: May help fight viral infections and support antibody production
- Taurine Amino Acid Powder: Modulates immune responses and reduces inflammation
- Amino Acid Mix: Provide building blocks for immune cells and antibodies

**AmphiPET Immune Booster spray** contains chelated mineral required for supporting immune functions:

- Chelated Zinc: Crucial for immune cell function, wound healing, and inflammation control.
- Chelated Copper: Helps maintain healthy white blood cells.
- Selenium Glycinate: Acts as an antioxidant and enhances immune response.
- Potassium Iodide: Supports thyroid function, which indirectly influences immunity.

**AmphiPET Immune Booster spray** contains beta-glucan yeast (immune active compound extracted from *S. cerevisiae*) that allows better intestinal immune functions through increased the abundance of Turicibacter, decreased the abundance of *E. coli*, increased fecal butyrate, and shifted the microbial functional gene profile in healthy adult beagle dogs.

#### **Product Benefits:**

**AmphiPET Immune Booster spray** can boost immune function & inflammation control.

**AmphiPET Immune Booster spray** helps as a strong immune defense via:

- Beta Glucan (Prebiotic): stimulates immune cells, helping the body fight infections.
- Turmeric Extract (Curcumin): natural anti-inflammatory and antioxidant, reduces oxidative stress.
- Omega 3-6-9: supports cell membrane integrity, reduces inflammation, and strengthens immunity

**AmphiPET Immune Booster spray** provides essential amino acids like lysine and methionine are required for protein synthesis and immune responses.

**AmphiPET Immune Booster spray** can be used for:

- Puppies for immune development.
- Senior pets with weak immunity.
- Pets under stress, vaccination, or recovery from illness.
- Daily use to maintain resilience against infections

#### **Directions For Use:**

##### **Method of Application:**

- Spray directly on your pet's dry food kibbles before feeding.
- Shake well before use. Ensure food is evenly coated with the spray.

##### **Recommended Daily Dose:**

- Small Pets (<10 kg): 0.5 – 1 ml
- Medium Pets (10–25 kg): 1 – 2 ml
- Large Pets (>25 kg): 2 – 3 ml



# AMPHIPET

## MAX Full Spectrum Nanoemulsion

### Liquid

*Nanoemulsion feed additive formulated for integration into dry pet food kibbles during manufacturing to enhance the nutritional value of pet food by adding a comprehensive blend of vitamins, minerals, probiotics, prebiotics, amino acids, nutraceuticals and immune boosters.*

#### **Ingredients:**

*Each 5 liters of AmphipET-MAX Full Spectrum Nanoemulsion contains*

**1- Vitamins:** Ascorbic Acid (Vitamin C), Vitamin A (Retinyl acetate), Vitamin E (dl- $\alpha$ -Tocopheryl acetate), Mixed Tocopherols, Folic Acid, Vitamin B1 (Thiamine), Vitamin B12 (Cobalamin), Vitamin B2 (Riboflavin), Vitamin B3 (Niacin), Vitamin B5 (Calcium Pantothenate), Vitamin B6 (Pyridoxine HCl), Vitamin K<sub>3</sub> (Menadione), Vitamin D<sub>3</sub> (Cholecalciferol) and Choline Chloride (vitamin-like quaternary ammonium essential nutrient).

**2- Minerals (Chelated):** Chelated Zinc, Chelated Copper, Chelated Manganese, Chelated Iron, Selenium Glycinate, Magnesium Glycinate, Potassium Iodide and Potassium Citrate.

**3- Probiotics:** Enterococcus faecium, Lactobacillus acidophilus, Bacillus licheniformis, Bacillus coagulans, Lactobacillus plantarum and Bacillus subtilis

**4- Prebiotics:** FOS (Fructo-oligosaccharide), MOS (Mannan Oligosaccharide) and Beta Glucan

**5- Enzymes:** Protease (Papain), Lipase, Amylase, Mannanase,  $\alpha$ -Galactosidase,  $\beta$ -Glucanase, Pectinase, Phytase, Xylanase and Cellulase

**6- Amino Acids and Proteins:** Methionine, Lysine, Taurine Amino Acid Powder, Amino Acid Mix (80%), Protein Peptides and Collagen Peptides Powder

**7- Nutraceuticals:** MSM Powder, Glucosamine Sulfate Powder, Chondroitin Sulfate Powder, HMB Powder, Turmeric Extract (Curcumin), CLA Powder, Omega 3, 6 and 9 and Betaine HCl

**8- Preservatives, Stabilizers and Antioxidants:** Sorbic Acid, Formic Acid, Phosphoric Acid (75%), Citric Acid (anhydrous), Ascorbic Acid (Vitamin C), Ascorbyl Palmitate, Tartaric Acid, Lactic Acid and Disodium EDTA

**9- Carrier and Delivery System:** Water-Oil Emulsion Carrier, Polyethylene Glycol, Food-grade Dextrin and MCT Oil

**10- Flavoring Agents:** Natural Salmon Flavor

#### **Product Description:**

*AmphipET-MAX Full Spectrum Nanoemulsion* is designed to be mixed with dry food kibbles during manufacturing process, providing essential probiotics, enzymes, prebiotics, vitamins, minerals, and amino acids that support your pet's digestive health, immune system, and overall vitality.



*AmphiPET-MAX Full Spectrum Nanoemulsion* is a premium liquid feed additive, manufactured using cutting-edge nano-emulsion technology to ensure superior bioavailability, rapid absorption and enhanced palatability.

*AmphiPET-MAX Full Spectrum Nanoemulsion* allows incorporating nanomaterials into animal feed leading to improved animal growth, better-feed utilization and more efficient nutrient conversion. In addition, nanomaterials can help improve digestion and absorption of nutrients in animals, resulting in better overall metabolism and physiology. This advanced formulation ensures that your pet receives the full benefit of each carefully selected component, even in small doses.

*AmphiPET-MAX Full Spectrum Nanoemulsion*, by applying nano-emulsified particles have a significantly larger surface area, facilitating faster digestion and uptake through the intestinal lining. This is particularly beneficial for animals with compromised gut health, weak digestion, or during recovery. The result is faster action, improved nutrient delivery, and greater physiological impact compared to conventional feed additives.

*AmphiPET-MAX Full Spectrum Nanoemulsion*, by applying nano-encapsulation technique, probiotics are dispersed into outer coats to shield them from environmental conditions.

#### **Product Benefits:**

- 1- *AmphiPET-MAX Full Spectrum Nanoemulsion* helps support digestive health.
- 2- *AmphiPET-MAX Full Spectrum Nanoemulsion* helps improve symptoms of IBS in dogs.
- 3- *AmphiPET-MAX Full Spectrum Nanoemulsion* helps accelerate clinical recovery of acute hemorrhagic diarrhea in dogs.
- 4- *AmphiPET-MAX Full Spectrum Nanoemulsion* can boost immune function & inflammation control.
- 5- *AmphiPET-MAX Full Spectrum Nanoemulsion* helps as neurological & metabolic support.
- 6- *AmphiPET-MAX Full Spectrum Nanoemulsion* may be essential for skeletal & muscular development.
- 7- *AmphiPET-MAX Full Spectrum Nanoemulsion* helps skin, coat & cellular health.
- 8- *AmphiPET-MAX Full Spectrum Nanoemulsion* helps growth & recovery.
- 9- *AmphiPET-MAX Full Spectrum Nanoemulsion* is used for dogs of all ages.
- 10- *AmphiPET-MAX Full Spectrum Nanoemulsion* is used for improving and prevention of atopic dermatitis, inflammatory bowel disease, and osteoarthritis in dogs.
- 11- *AmphiPET-MAX Full Spectrum Nanoemulsion* may be used to improve diabetic control in pets.
- 12- *AmphiPET-MAX Full Spectrum Nanoemulsion* may be used to guard against cardiomyopathy in dogs.
- 13- *AmphiPET-MAX Full Spectrum Nanoemulsion* may be of value for aging dogs.
- 14- *AmphiPET-MAX Full Spectrum Nanoemulsion* includes several omegas.
- 15- *AmphiPET-MAX Full Spectrum Nanoemulsion* contains betaine helpful in renal diseases.

## **Incorporation of AmphiPET-MAX Full Spectrum Nanoemulsion into Tallow Oil:**

### **Objective**

- To provide detailed instructions for the homogeneous mixing of AmphiPET-MAX Full Spectrum Nanoemulsion into tallow oil, ensuring product stability, efficacy, and compliance with quality standards.

### **Scope**

- Applicable to production batches involving a 1000-liter tallow oil tank, with an inclusion rate of 4 liters of AmphiPET-GUARD per 40 liters of tallow oil.

### **Equipment:**

- 1000-liter stainless steel tallow oil tank with heating jacket and temperature control.
- High-shear mixer (e.g., inline rotor-stator mixer) capable of 3000–6000 RPM.
- Recirculation pump compatible with high-viscosity fluids.
- Nanoemulsion application system with adjustable nozzles and pressure control.
- Temperature monitoring devices (digital thermometers or probes).

### **Materials:**

- **AmphiPET-MAX Full Spectrum Nanoemulsion.**
- Tallow oil, pre-filtered and free from impurities.
- Personal Protective Equipment (PPE): gloves, safety goggles, lab coat.

### **Safety Precautions**

- Ensure all personnel wear appropriate PPE.
- Verify that all equipment is clean and free from contaminants.
- Maintain the working area free from obstructions and spills.
- Ensure proper ventilation in the mixing area.

### **Procedure**

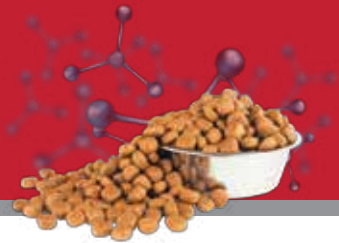
#### **1- Preparation**

##### **1- Tallow Oil Heating:**

- Activate the heating system of the tallow oil tank.
- Gradually heat the tallow oil to a temperature of 40–45°C.
- Maintain this temperature range throughout the mixing process to ensure optimal fluidity.

##### **2- AmphiPET-MAX Full Spectrum Nanoemulsion Preparation:**

- Gently invert the AmphiPET-MAX Full Spectrum Nanoemulsion containers to ensure uniformity.



## 2- Mixing

### 1- Initial Mixing:

- Start the high-shear mixer at a low speed (~1000 RPM) to create a gentle vortex in the tallow oil.
- Slowly add the calculated volume of AmphiPET-MAX Full Spectrum Nanoemulsion into the vortex.
- For a 1000-liter tank, the inclusion rate is 100 liters of **AmphiPET-MAX Full Spectrum Nanoemulsion** (based on 4 liters per 40 liters of tallow oil).

### 2- Shear Mixing:

- Gradually increase the mixer speed to 3000–6000 RPM.
- Continue mixing for 15–20 minutes to ensure thorough dispersion of the nanoemulsion.
- Monitor the mixture for homogeneity; the solution should appear uniform without visible separation.

### 3- Recirculation (if applicable):

- If using a recirculation pump, circulate the mixture through the high-shear mixer for an additional 10 minutes to enhance uniformity.

## 3- Post-Mixing

### Cooling:

- After mixing, allow the mixture to cool to ambient temperature (20–25°C).
- Continue gentle stirring during cooling to maintain homogeneity.

### Quality Check:

- Collect samples from different points in the tank.
- Assess for uniformity, absence of phase separation, and consistency in appearance.





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