



Zoomaria S.r.l.

Viale G. Mazzini, 31/L - 36100 Vicenza (VI), ITALY

Tel: +39 347 5327982 - email: info@zoomaria.it - www.zoomaria.it

ZOOPLUS

Liquid Premix of Feed Additives / Oral solution

Immune stimulant + Maximum Protection against Toxin

COMPOSITION: Each 1 litre contains

Yeast extract (dried *Saccharomyces cerevisiae* cell wall) , MOS /Mannan oligosaccharides , Beta 1.3/1.6 glucans , Propylene Glycol /1,2 Propanediol , Vitamin B1 Thiamine mononitrate , Vitamin B2 Riboflavin 5'- phosphate sodium , Vitamin B6 Pyridoxine hydrochloride , Vitamin C Ascorbic acid , Betaine hydrochloride , Aspartic acid , Copper sulphate pentahydrate , *Bacillus subtilis* spores , Oregano essential oil (Carvacrol, Thymol) , *Carduus marianus* extract (Silymarin) , Papaya extract (Papain) , Artichoke extract (Cynarine) , Orthophosphoric acid , Citric acid , Lactic acid , DL-Malic acid , Ammonium formate , Potassium sorbate , Demineralized water

Indication:

Growth promoter, toxin binder and acidifier. Natural & safe antiviral, antibacterial and immune stimulant, acts against weakness, stress, liver dysfunction.

Benefits:

Dietetic liquid supplement formulated to correct fatty liver conditions

Alternative to antibiotics that can be used in natural meat, milk, and egg programs control a wide range of mycotoxin including aflatoxin, ochratoxin, T2, zearelinon , vomitox and other mycotoxin types

Contains plant extracts and group of highly concentrated organic acid and their salts that kills bacteria

Has antibacterial activity against many gram positive and gram negative organisms killing pathogenic bacteria like *E. coli*, *Salmonella*, *Staphylococcus aureus*, *Aspergillus*, *Candida*, *Clostridia*, *Bacillus spp.* and *pseudomonas*, giving opportunity for beneficial bacteria to regain its balance

Boost immunity by different ways due to its unique formula

Provides higher local immune response in the gut protecting from diarrhoea

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Stimulates higher ant body production when used along with vaccine

Enhances immunity by stimulating interferon production so increase the body defence against viruses

Interferes with colonization of intestinal pathogen

Increases bile flow and decrease cholesterol levels

Improves FCR, growth and performance

Improves bird performance and uniformity

Increase egg production and egg quality

Increase milk and meat production in farm animals

Mode of action:

M.O.S. does two things in the gut. First, it binds to the attachment sites (specifically, the Type I fimbriae) on certain pathogens (like *E. coli* and *Salmonella*) and prevents the bacteria from docking to receptors on the host animal's epithelial gut lining. In doing so, it reduces the pathogens from causing potential damage to the host animal's digestive tract which can lead to disease. Second, it provides a general stimulation of the immune system by evoking a direct antibody response against invading pathogens. The cell wall of yeast is made up of numerous protein, carbohydrate, and lipid-based components, including saccharine (sugar) structures called "mannanoligosaccharides."

Mannanoligosaccharides (M.O.S) protrudes from yeast cell walls and are involved in cell-to-cell communication. M.O.S is considered to be a prebiotic because it is not broken down by the host animal's digestive enzymes but can be used as a "food" source for beneficial bacteria that inhabit the natural flora of the digestive tract. It protects liver and kidney cells from mycotoxin as it prevents mycotoxin from accessing to the cell via blocking the cell receptors.

In addition to it has a high concentration of glucans which is characterized by a strong immune-stimulant action, participating actively in the control of many diseases (virals and bacterials) present in all intensive farming nowadays.

The sequestrant capacity against mycotoxins (Aflatoxin B1, Zearalenone, Deoxynivalenol, Fumonisin, T2, Ocratoxin...), bacterial and organic toxins, is due to the presence of Mannan Oligosaccharides (M.O.S.), oligomers of mannose non-digestible in the gastrointestinal tract. The direct contact between the feed and mannan oligosaccharides allows the chelation of mycotoxins contained in the feed. Once M.O.S. reach the intestine, they come in contact with the bacterial flora and, specifically, with toxins and pathogenic bacteria (*E.coli*, *Salmonella*, *Clostridium*). These bacteria are equipped with special fimbriae, to which they can adhere to the intestinal wall and colonize the digestive tract.

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M.O.S., in these conditions, are able to bind the receptors of pathogens, giving origin to an inseparable complex (bacterium + M.O.S.) and thus allowing a rapid evacuation through the faeces.

Beta 1,3/1,6 glucans are considered to be potent activators of the non-specific immune system.

Both in vivo and in vitro trials confirm that they are able to increase the number of macrophages, the secretion of cytokines and the amount of immunoglobulin.

Beta 1,3/1,6 glucans promote the production of monocytes, neutrophils, and increase the production of interleukins.

Betaine as well as Vitamin B complex are key metabolites involved in the process of liver functions affecting the influx of free fatty acids to the liver, free fatty acid oxidation, the hepatic secretion of triglycerides and lipid peroxidation. Consequently, improving liver function and improves detoxification process in the liver also prevent liver dysfunctions and improves liver enzyme production.

Organic acids are naturally occurring, carbon containing compounds with acidic properties and antimicrobial activity thus controlling undesirable microorganisms. They have been shown to positively influence the gut microbiota, shifting the bacterial balance towards bacteria that are considered beneficial for healthy gut. Furthermore, organic acids and their salts have been shown to have positive effects on intestinal morphology and the immune system.

Probiotic microbial stimulate the growth of beneficial bacteria in the micro flora, is highly effective in its capacity to inhibit growth of different pathogenic strains and to have anti-inflammatory effects. It stimulates the growth of the beneficial bacteria populations and, as a consequence, the level of potentially pathogenic gram-negative bacteria is reduced in the intestinal content and in caeca. It can also help balance the first-line mediators of inflammation and by maintaining a state of balance in the gastrointestinal tract, it improves the growth rate and feed utilisation.

Carduus Marianus, also known as milk thistle, is an annual or biennial herb recognized by its purple flowers and spiny leaves and stems. The hard-shelled fruit is the only part of the plant that is used for medicinal purposes.

This herb is particularly valuable in homeopathic medicine, in which it is used to improve liver function. The plant's fruit provides silymarin, a liver-regenerating bioflavonoid used in the homeopathic treatment of cirrhosis and hepatitis.

Silymarin works in the liver by stabilizing cell membranes and regenerating liver cells. It also has antioxidant properties and helps to protect liver cells from free radical damage. It also filters toxins

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from the blood and may help to keep blood sugar at a steady level. Silymarin also may assist in regulating fats and reducing intestinal inflammation.

Carduus Marianus is used in herbal remedies for several other medical conditions that are not liver-related. The herb stimulates the gall bladder and bowels, and promotes urination, which helps to keep kidneys healthy. It also may help to soften kidney stones and gallstones. Psoriasis and other skin conditions also may be improved by using the plant in an herbal remedy. In addition to its hepatic protective effect, the *Carduus Marianus* has anti-oxidant properties: silymarin reacts with free radicals and transforms them into more stable and less reactive components.

Artichoke is also a plant extract very effective for the liver: the active amount cynarine promotes urination and bile secretion. It has diuretic and digestive properties and lowers cholesterol levels, and has antioxidant effect that can prevent atherosclerosis and cardiovascular diseases.

Papain is a proteolytic enzyme found in concentrated amounts in unripe papaya fruit. It is similar to bromelain and has many of the same health benefits. However, there are a few medicinal traits unique to papain that can help improve the body's overall health. Papain also helps reduce pain and inflammation, as well as fluid retention following trauma. In fact, studies have shown that papain possesses strongly marked anti-inflammatory activity. Even more, papain has been used for a variety of other issues including: treating parasitic worms, inflammation of the throat and pharynx, shingles symptoms, diarrhoea and psoriasis.

Dosage and Administration: For oral administration via drinking water

Poultry: 0,25-0,5 ml/liter drinking water for 3-5 days

Horses, Buffalos, Cattle: 50 - 100 ml / 100 kg

Shake well before use.

Packing: Bottles of 40 x 250 ml per carton box, Bottles of 18 x 500 ml per carton box, Bottles of 12 x 1 litre per carton box; Can of 3 x 5 litre per carton box; Can of 10, 20 and 25 liters

Storage: Keep tightly sealed, dry, cool and protected from direct sunlight. Opened packages should be used promptly.

Origin : Italy, European Union

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