

Your profit. Animal well-being.

**provitim** 



Provitim is a Polish company producing premixes and complementary feed for animals. We are acting both on the Polish and foreign market. We have been producing feed additives, for many years, offering our customers high quality products developed with the participation of specialists of animal nutrition, veterinarians and technologists.

Products that we offer are composed from the best raw materials available: protected vitamins, macro and micro- nutrients in the forms of inorganic and organic acids, amino acids, enzymes, probiotics, flavorings, ensuring their maximum absorption. Production takes place in factory equipped with modern production lines. Our professional staff, working under quality control systems and using specialized computer software, ensures the high quality of products.

We are not a big company - though management is effective, we are flexible, quickly respond to the needs of our customers. All this create rapidly increasing demand for our products. Provitim is associated by many breeders with solving existing problems in feeding their charges and improving the profitability of livestock production.





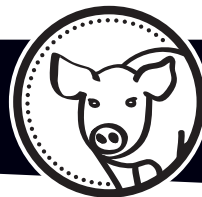
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**CATTLE**



## Starter-Calf

complementary feed



**INGREDIENTS:** colostrum; Enterococcus faecium DSM 10415 NCIMB 8x10h9; pectins; biotin; folic acid; vitamin K3; vitamin B2; vitamin B1; vitamin B5; vitamin B6; vitamin B12; vitamin PP; vitamin A ; vitamin C; vitamin E; vitamin D3; aminoacids: Alanine, Asparagine, Cysteine, Glutamine, Histidine, Leucine, Methionine, Phenylalanine, Serine, Threonine, Tyrosine, Arginine, Alanine, Citrulline, Glycine, Isoleucine, Lysine, Ornithine, Proline, Taurine, Tryptophan, Valine

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They stimulate creation of positive bacterial flora in first hours of life. They are a source of immunoglobulins which prevent colonization of the mucous membranes with pathogenic bacteria. They are a source of highly absorbable energy and decrease the risk of diarrhoea.

**DOSAGE:** Administer 15ml of the preparation just after calving to weaker calves. Repeat the treatment after 3-5h. Product can be administered to older calves in times of weakness and after infections of different etiology.

**AVAILABLE IN CONTAINER:** 15 ml, 30 ml (syringe)

## Super-Calf

complementary feed



**INGREDIENTS:** yeast (Saccharomyces cerevisiae, Kluyveromyces marxianus); Aspergillus oryzae; Aspergillus niger, Enterococcus faecium DSM 10415 NCIMB, vitamin A; vitamin D3; vitamin E; vitamin K3; biotin; folic acid; vitamin B1; vitamin B2; vitamin B6; vitamin B12; niacin; vitamin B5, chicory; glucose; guar gum; polysorbate

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They stimulate milk metabolism and creation of positive bacterial flora. They improve appetite, immunological efficiency of colostrum, intestinal activity in stress periods, immunity and general condition. They also decrease the risk of diarrhoeas occurrence.

**DOSAGE:** 10 ml of SUPER CALF after birth and/or during high levels of stress, before and after antibiotic treatment. If necessary repeat the dose for 3-5 days.

**AVAILABLE IN CONTAINERS:** 100 ml (syringe)

## Hydro-Calf

complementary feed



**INGREDIENTS:** potassium chloride; sodium chloride, dextrose (glucose); pectins; vitamin C;

sodium propionate; sodium acetate; sodium citrate; glutamine; polysorbate; guar gum;

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Sodium and potassium are necessary for maintaining water and electrolytic balance in the organism. The addition of glutamine additionally aids maintaining this balance. The remaining components regulate the acid-base blood balance, supply energy and regulate proper flow of liquids

**DOSAGE:** Administer 25ml of the preparation orally or mix with 1 L of warm milk or water. If necessary repeat the treatment after 12 h. The preparation may be administered for up to 5 days.

**AVAILABLE IN CONTAINERS:** 100 ml (syringe)

## Pecto-Calf Gel

complementary feed



**INGREDIENTS:** chamomile; yeast (Saccharomyces cerevisiae, Kluyveromyces marxianus); Aspergillus oryzae; Aspergillus niger; oregano extract; oak bark tree extract; gall extract; pectins; plant oils(coriander); iodine; manganese; zinc; copper; cobalt; vitamin A; vitamin D3; vitamin E; vitamin C; niacin; sodium citrate; orthophosphoric acid; salicylic acid; stabilized extracts of garlic, onion or leek with guaranteed content of PTS and PTSO molecules; fatty acids; flower; guar gum; polysorbate; xanthan gum;

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They create biofilm on intestine walls as well as on intestine Villus. Bind toxins, create proper stool, have a soothing and anti-inflammatory effect on the intestine mucous membrane. They improve organism immunity to bacterial infections and favour colonisation of positive bacterial flora.

**DOSAGE:** In case of diarrhoeas occurrence 30-50 g of PSYLLLO CALF GEL daily. The dose should be adjusted to the intensity of the diarrhea. If necessary repeat the treatment after 24 h.

**AVAILABLE IN CONTAINERS:** 100 ml (syringe)



## Pectostop

complementary feed



**INGREDIENTS:** pectins; yeast (*Saccharomyces cerevisiae*, *Kluyveromyces marxianus*); *Aspergillus oryzae*; *Aspergillus niger*; sodium propionate; potassium citrate; plant extracts: oak, acacia, chamomile; dextrose, betaine; vitamin C; vitamin A; vitamin D3; vitamin E; carboxymethylcellulose; caramel aroma; colloidal silica;

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They bind pathogenic toxins at the level of mucous membrane and form proper stool additionally they create biofilm on the intestine walls and the intestinal villus. They have a calming and anti-inflammatory effect on the intestine mucous membrane. They favours quick colonization of positive bacterial flora at the level of epithelium and improve immunity of the organism against bacterial infections thanks to the presence of vitamins A, D3 and C. Dextrose present in the preparation is the source of easily accessible energy and thanks to the presence of well balanced aromas the preparation is willingly swallowed by calves which do not want to drink milk.

**DOSAGE:** CALVES: Mix 50-65g of the preparation in 2 litres of warm water and water the calf. In case of severe diarrhoea administer the preparation twice. Provide permanent access to water for the calves. PIGLETS: Mix 5g of the preparation in 100ml of warm water. Administer at the dose of 6-7,5 ml per each kilogram of body weight 1-3 times per day (depending on the intensity of the diarrhoea).

**AVAILABLE IN CONTAINERS:** 100 g (bag), 500 g (plastic container)

## Glucolit

complementary feed



**INGREDIENTS:** glucose, sodium chloride, sodium carbonate, potassium chloride, zinc sulfate, glycine

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They level water-electrolyte balance (diarrhoea, dehydration and devastation of the organism) and have strengthening activity during metabolic problems. They regulate metabolism and glucose supplies energy for the majority of life processes. Glycine improves gastric absorption of the electrolytes.

**DOSAGE:** Dissolve 300g of the product in 10 litres of warm water (circa 35°C). Administer: 2 litres of the solution per calf 2-3 times a day for 2-3 days. **CAUTION!** Do not administer longer than for 4 days. Do not give milk while using the product.

**AVAILABLE IN CONTAINERS:** 300 g (bag)

## Vitamins

Vitamins are organic compounds which are not produced by the organism and without which the organism cannot live. Therefore vitamins have to be supplied to the organism with feed or drinking water. They support metabolic processes, improve activity of enzymes and catalyze proteins.





## Provent Gel



complementary feed

**INGREDIENTS:** yeast (*Saccharomyces cerevisiae*, *Kluyveromyces marxianus*); *Aspergillus oryzae*; *Aspergillus niger*; sodium propionate; *Salix alba* L. extract; acorus extract; ; linseed; *Artemisia absinthium*; zinc; cobalt; manganese; copper; iron; calcium chloride; sodium carbonate; citric acid; flower; plant oils; polysorbate; xanthan gum; silica; guar gum

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They stimulate rumen activity and favour its normal functioning. Actively affect intestine epithelium tissue contractions. Support colonisation of positive and vital flora and at the same time restore proper metabolism. Aid rumen emptying and stimulate feed swallowing.

**DOSAGE:** Cattle: one 100 ml syringe. If necessary repeat the treatment after 24h.

**AVAILABLE IN CONTAINERS:** 100 ml (syringe)

## ProStir-Active



complementary feed

**INGREDIENTS:** sodium propionate, yeast (*Saccharomyces cerevisiae*, *Kluyveromyces marxianus*); *Aspergillus oryzae*; *Aspergillus niger*; *Linum usitatissimum*, *Cichorium*, *Salix alba* L. extract, manganese, zinc, copper, cobalt, iron, sodium, calcium, vitamin A, vitamin D3, vitamin E, niacin, sodium carbonate, citric acid, silica, flour

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Finely ground linseed (*Linum usitatissimum*) and the yeast stimulate the appetite. Sodium propionate is a source of rapidly available energy. The remaining slats present in the product supply minerals in case of their deficiency. *Salix alba* L. extract as an anti-inflammatory activity. Vitamins improve the metabolism and the immunity.

**AVAILABLE IN CONTAINERS:** 1 kg, 5 kg, 25 kg (bag)

## *Hawthorn*

Hawthorn (*Crataegus* species) has been used to treat heart disease as far back as the 1st century. By the early 1800s, American doctors were using it to treat circulatory disorders. Traditionally, the berries were used to treat heart problems ranging from irregular heartbeat, high blood pressure, chest pain, hardening of the arteries, and heart failure. Today, the leaves and flowers are used medicinally, and there is some research that suggests that hawthorn might be effective when used in the treatment of mild to moderate heart failure. Animal and laboratory studies report hawthorn contains antioxidants, including oligomeric procyanidins (OPCs, also found in grapes) and quercetin. These antioxidants may help stop some of the damage from free radicals, especially when it comes to heart disease.





## Rumen-Active

complementary feed



**INGREDIENTS:** sodium propionate, yeast (*Saccharomyces cerevisiae*, *Kluyveromyces marxianus*); *Aspergillus oryzae*; *Aspergillus niger*, *Salix alba* L. extract, manganese, zinc, copper, cobalt, iron, sodium, calcium, vitamin A, vitamin D3, vitamin E, niacin, sodium carbonate, citric acid, silica, flour

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They level digestion disorders in dyspepsias of different origin, ketosis, acidosis, stomach and intestine infections, diarrhoeas and bloats. They have a screening activity while using antibiotics and preventative activity while changing the diet. They have antiketogenic and glucose creating activity that favours completion of energy deficiency restoring correct carbohydrates metabolism and proper pH of the rumen. They create effective buffer system.

**DOSAGE:** Cattle: dissolve 170g of the product in 1-2 litres of warm water, administer orally twice a day for 3-4 days. Calves (older), sheep, goats: dissolve 85g of the product in 1-2 litres of warm water, administer orally twice a day for 3-4 days.

**AVAILABLE IN CONTAINERS:** 170 g, 850 g (plastic containers), 3,4 kg (bag)

## Herba Bolus

complementary feed



**INGREDIENTS:** *Yucca* L., garlic oleoresin, CAS 8000-78-0, oregano essential oil, vitamin E, iron, magnesium

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: The garlic oleoresin (with stabilized PTS and PTSO molecules) has strong antibacterial activity. The saponins present in *Yucca* L. aid the detoxification of the organism. Oregano essential oil is a source of flavonoids which have anti-inflammatory and antibacterial activity and vitamin E which is essential in protecting against mastitis. The synergic activity of all of the components allow to lower the number of somatic cell in very short period of time, optimizes the nutrients absorption and allows to maintain healthy gut flora.

**DOSAGE:** 1 bolus per cow in order to decrease the somatic cell count. 1 bolus one week before calving or in case of lack of appetite. Do not administer more than 2 boluses per month.

**AVAILABLE IN CONTAINERS:** 1 bolus 70g (plastic container)

## Provital

complementary feed



**INGREDIENTS:** yeast (*Saccharomyces cerevisiae*, *Kluyveromyces Marxianus/lactis* fermentation) *Aspergillus oryzae*, *Aspergillus niger*, vitamin A (retinole), vitamin D3 (cholecalciferol), vitamin E (a-tocopherol), niacin (B3)

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They optimize the balance in ruminal and intestinal microbial composition. Increase utilization of the diet cellulose fraction and ingestion of dry matter. Improve utilization of the protein fraction and intestinal absorption. Reduce toxins production at intestinal level, the number of somatic cells and inflammation at intestinal level. They also increase production rates.

**DOSAGE:** Mix with normal feed in order to provide the following doses: Calves (up to 5-6 months old): 10-20g/day. Meat bovine: 15-25 g / day. Dairy cows: 20-30 g/day.

**AVAILABLE IN CONTAINERS:** 5 kg, 25 kg (bags)

## Provital Vet

complementary feed



**INGREDIENTS:** yeast (*Saccharomyces cerevisiae*, *Kluyveromyces Marxianus/lactis* fermentation) *Aspergillus oryzae*, *Aspergillus niger*, vitamin A (retinole), vitamin D3 (cholecalciferol), vitamin E (a-tocopherol), niacin (B3)

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They optimize the balance in ruminal and intestinal microbial composition. Increase utilization of the diet cellulose fraction and ingestion of dry matter. Improve utilization of the protein fraction and intestinal absorption. Reduce toxins production at intestinal level, the number of somatic cells and inflammation at intestinal level. They also increase production rates.

**DOSAGE:** In feed: Mix with normal feed in order to provide the following doses: Calves (up to 5-6 months old): 10-20g/day. Meat bovine: 15-25 g / day. Dairy cows: 20-30 g/day. In treatment: 300-500 g per head and then repeat the treatment after 8-12h. 1000g after calving. As alimentary treatment 50-100g used as an additive to other products on which the treatment is based.

**AVAILABLE IN CONTAINERS:** 1 kg, 5 kg, 25 kg (bags)





## Nefritox

complementary feed



**INGREDIENTS:** trisodium citrate, potassium citrate, ammonium propionate, sodium chloride, potassium chloride, citric acid, vitamin C, extracts of: urtica, birch, equisetum arvense, propylene glycol

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Trisodium citrate, potassium citrate and ammonium propionate cause frequent urination which aids kidney cleansing. Supplementation with plant extracts facilitates this process. Fast kidney cleansing is essential in urinary tract infection, gout, for food poisoning and in case of drug overdose.

**DOSAGE:** 100-200 ml of the product per head for 5 days.

**AVAILABLE IN CONTAINERS:** 1L (bottle)

## Energene

complementary feed



**INGREDIENTS:** energetic extract of barley, with sugars having high bio-available energy. Additionally contains per 100g: vitamin B1; vitamin B2; vitamin B3; vitamin B6; vitamin B8; vitamin B12; vitamin C; pantothenic acid; folic acid; calcium; copper; iron; magnesium; manganese; phosphorus, potassium; sodium; zinc. Amino acids content: Ac L. Glutamic, L. Proline, Ac. L. Aspartic, L. Leucine, L. Alanine, L.Valine, L. Serine, L.Fenilalane.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They have preventative and therapeutic activity against ketosis, supply necessary energy and vitamins. They eliminate ketone bodies. They regenerate damaged liver and stimulate appetite.

**DOSAGE:** In preventative use or in case of any symptoms of ketosis occurrence 200-250 g twice a day for 3-4 days. In case of ketosis occurrence use cumulative dose of 500 g twice a day for 2 days and afterwards 200-250 g for 2-3 weeks.

**AVAILABLE IN CONTAINERS:** 5 kg (canister), 1 kg (bottle)

## Herbitan

complementary feed



**INGREDIENTS:** oak bark, matricaria, oregano, glucose, Salix alba L. extract

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Oak bark, matricaria and oregano have always been used in case of disturbances in functioning of the alimentary tract (diarrhoea). Oak bark has astringent properties. Oregano and matricaria have bacteriostatic and antiinflammatory properties. They help remove the excess of toxins and byproducts of metabolism.

**DOSAGE:** Cows and calves: 120g of the product per head. Administer orally after blending in warm water. If necessary administer twice a day (in the morning and in the evening) for 3-4 days.

**AVAILABLE IN CONTAINERS:** 120 g, 500g (plastic containers), 2,4 kg (bag)

## Ketostop

complementary feed



**INGREDIENTS:** propylene glycol, sodium propionate, betaine, sodium chloride, silica

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They prevent ketosis if administered in case of any ketosis symptoms occurrence. They effectively eliminate problems connected with animal's energy management (level the effects of negative energy balance and activate energy metabolism). Thanks to the presence of betaine the risk of fatty liver disease occurrence is reduced.

**DOSAGE:** In case of ketosis occurrence add 330g of the product to the fodder (daily) for 2 weeks or blend in 1 L of water and administer orally once a day. In preventive use reduce the dose to 165g and administer for one week before the labour.

**AVAILABLE IN CONTAINERS:** 330g (bag)



## Livotox



### complementary feed

**INGREDIENTS:** choline, carnitine, betaine, sorbitol, artichoke extract, B vitamins: B1, B2, niacin (B3), pantothenic acid (vitamin B5), B6, B12, vitamin K3

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They enhance liver cell recovery and stimulate bile discharge. They control cholesterol level in blood, having a positive impact on the digestive system, circulatory system and nervous system. They protect against disturbances caused by toxins, viruses and medicines.

**DOSAGE:** in preventative use 100 ml of the product per day for 5 days. In treatment administer 200 ml of the product per day for 5 days. In case of serious poisoning use 300-500 ml in a single dose. Repeat the dose after 24 h.

**AVAILABLE IN CONTAINERS:** 1L (bottle), 5L (canister)

## Propower Vet



### complementary feed

**INGREDIENTS:** glycerine, propylene glycol, glucose (dextrose), DL-methionine, choline, inositol, vitamin B1, vitamin B2, niacin (B3), pantothenic acid (B5), vitamin B6, vitamin B12, vitamin K3, sodium, potassium

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: The components of the product are rich source of energy, amino acids and vitamins necessary for proper functioning of the organism. They limit the negative energy balance after calving and lower the ketone bodies level. Inositol lowers blood pressure caused by stress and together with choline is a lipotropic compound which aids metabolism and speeds up the process of fat burning-liver protection. The addition of sodium and potassium allows proper balancing of their concentration in the organism.

**DOSAGE:** 250 g of the product per head, per day. It is recommended to use the product for 3-6 weeks.

**AVAILABLE IN CONTAINERS:** 1 kg (bottle), 4 kg (canister), 25 kg (canister)

## Calcium-Plus Liquid



### complementary feed

**INGREDIENTS:** calcium chloride, calcium gluconate, glucose syrup, magnesium chloride, glycol. Additionally contains per 1 kg: vitamin PP (1000 mg);

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They help preventing afterbirth problems and rise the glucose level in blood. Vitamin PP protects the liver. They rapidly supplement calcium deficiencies-magnesium additionally increases the efficiency of calcium. They tone the muscular, nervous and cardiovascular system

**DOSAGE:** Administer the product orally in the amount of 400-500 g a few hours before labour. If necessary repeat the treatment after the birth. Shake before use.

**AVAILABLE IN CONTAINERS:** 5 kg (canister), 1 kg (bottle)

## Calcium

Calcium is an essential constituent of bones, teeth, and shells. The thickness of the egg shell is essential as far as hatchability is concerned. Eggs with a higher specific gravity have been reported to result in superior hatchability due to lower embryonic mortality throughout incubation. Calcium as a constituent of bones helps preventing rickets. In dairy cattle it prevents postnatal paralysis. Supplying calcium to cattle is very important as Calcium balance disorders are often connected with hypophosphataemia. Additionally calcium is used to control high levels of magnesium, phosphorus, and potassium in the blood. There's good evidence that calcium can help prevent or control high blood pressure.





**POULTRY**



## AD3E



complementary feed

**INGREDIENTS:** Vitamin A, Vitamin D3 and Vitamin E

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They control calcium and phosphorus metabolism. They ultimately affect eggshell and skeleton formation. They protect the bird's liver and skeletal muscles. They have anti-inflammatory properties and stabilize enzymes, fats, hormones and mucous membranes. They increase immunity and lower mortality.

**DOSAGE:** 100 ml/1000 L drinking water over 3-5 days in continuous dosing. Poultry after 4th week of life 200 ml/1000 L drinking water over 3-5 days in continuous dosing.

**CONTAINERS AVAILABLE:** 1L, 5L

## Vit. B Complex+K



complementary feed

**INGREDIENTS:** B vitamins: B1, B2, niacin (B3), pantothenic acid (B5), B6, B12 and vitamin K

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They improve metabolism and body weight gain. It is especially recommended for use in the period of growth and development, after administration of antibiotics and/or sulfonamides, for poor feathering, in the cases of cannibalism and FLD.

**DOSAGE:** 500-800 ml/1000 L drinking water in continuous dosing.

**CONTAINERS AVAILABLE:** 1L, 5L

## D3-Vit-Forte



complementary feed

**INGREDIENTS:** Vitamin D3 (12,5 mln IU./L); It also contains: calcium, magnesium, phosphorus and zinc.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Vitamin D3 contributes to normal bone development – it regulates calcium and phosphorus metabolism and it increases their absorption in the small intestine. It is conducive to normal growth of eggshell in the case of layer hens, a adequate amount of phosphorus influences laying in birds. The remaining minerals help boost level of vitamin D3, regulate heart rate, influence coagulation and allow easier assimilation of individual nutrients.

**DOSAGE:** 400 ml/1000 L drinking water over 3 days every fortnight.

**CONTAINERS AVAILABLE:** 5L

## Vit. H+Zn Biotyna



complementary feed

**INGREDIENTS:** Vitamin H – biotin and zinc

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications:

The supplementation of Vitamin H and zinc is effective in every poultry species. Vitamin H prevents poor feathering and cutaneous condition especially in the region of claws, legs and gapes. It whets appetite and increases growth as a result of regulation of metabolic diseases. It alleviates problems connected with palpebral edema, chondrodystrophy, low hatching rate, weakness of the legs and fatty liver and kidney syndrome (FLKS). Zinc plays an important role in bone and eggshell mineralization and it assures normal growth. Its deficiency triggers skin lesions, poor feathering, very poor hatching rate and embryonic mortality.

**DOSAGE:** 500-800 ml/1000 L drinking water over 6-8 days over the period of 6 h.

**CONTAINERS AVAILABLE:** 1L, 5L



## Selemix



complementary feed

**INGREDIENTS:** Vitamin E and selenium

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Vitamin E prevents muscular dystrophy and cerebral softening, and decrease in laying and hatching rate. In the case of turkey-hens and duck-hens it also prevents dilated cardiomyopathy (DCM), and necrotic tissue in the abomasum. It stimulates immunity against bacterial and parasitic infections and it reduces stress connected with the change of temperature, diet and transport. Selenium, when dosed properly, serves as an antioxidant. It influences immune system stability in the fight with toxic substances. It protects cell walls and cell components and prevents from degeneration hialoidea musculorum.

**DOSAGE:** 200-250 ml/1000 L drinking water as a supplementary dose recommended in deficiency of selenium and vitamin E.

**CONTAINERS AVAILABLE:** 1L, 5L

## *Artichoke*

The concept of hepato-protection basically reflects an appreciation of the liver's critical role in many aspects of metabolism and the importance of improving the liver's function by protecting it from damage. Antioxidants are among the many compounds that can offer significant protection of the liver. Artichoke extract has demonstrated a strong antioxidant potential and hepato-protective effect in recent research on animals. It protects the liver and the animal from the damaging effects of toxins, such as carbon tetrachloride and other environmental chemicals in a manner similar to that of silymarin from the milk thistle. Like milk thistle, artichoke extract stimulates the regeneration of damaged liver tissue.





## Oregovit



complementary feed

**INGREDIENTS:** natural essential oils and herbal extracts of oregano, thymol, carvacrol.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Thymol and oregano stimulate gastric acid production and they aid digestion – they have detoxicating effects. Oregano increases the secretion of digestive enzymes, which in turn prevents excessive growth of pathogenic microbes in the intestines.

**DOSAGE:** 100-200 ml/1000 L drinking water over 6-8 days for 8-12 h.

**CONTAINERS AVAILABLE:** 1L, 5L

## Probil



complementary feed

**INGREDIENTS:** potassium iodide, natural essential oils and herbal extracts of tea tree, carnation, pine and chelidonium, sodium and potassium.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: The mixture of potassium iodide with carnation oil, tea tree oil, pine tree oil and chelidonium extract has strong fungicidal properties. They ensure high margin of protection against the growth of pathogenic fungi in birds. (mainly of the types *Candida* sp. and *Aspergillus* sp.).

**DOSAGE:** 150-200 ml/1000 L drinking water over 5 days or 100 ml/1000 L drinking water in continuous dosing.

**CONTAINERS AVAILABLE:** 1L, 5L

## Pulmomix



complementary feed

**INGREDIENTS:** mixture of essential oils (peppermint, eucalyptus), plant origin menthol, vitamin A, echinacea purpurea extract

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Mint oil stimulates the respiratory tract and nervous system. Eucalyptus oil restores natural movements of the epithelium and it supports bronchial secretion clearance. Menthol works anaesthetically and it reduces mucosal irritation. Vitamin A and echinacea extract stimulate and strengthen the immune system;

**DOSAGE:** 200-250 ml/1000 L drinking water over 3 days for 8-12 h. A metered-dose may also be sprayed in the air by means of a fogger.

**CONTAINERS AVAILABLE:** 1L, 5L

## Non-Diar+



complementary feed

**INGREDIENTS:** Juglans regia extract, oak bark extract, gall extract, tannic acid

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Juglans regia extract (in the past walnut brew) has been used in case of bacterial diarrhoea for centuries thanks to its natural antibacterial activity. Walnut shell contains a lot of juglone which is a strong antiseptic agent. Tannic acid, oak bark extract and gall extract provide high amount of tannins. The tannins bind to the proteins and prevent penetration of water into the lumen and they have antibacterial properties and destroy even antibiotic resistant bacteria. They have astringent properties.

**DOSAGE:** 250-500 ml/1000 L drinking water over 3-5 days for 12 h.

**CONTAINERS AVAILABLE:** 1L, 5L

## Valerian

Valerian is well known for its sedative qualities and its ability to relax the central nervous system and the smooth muscle groups. It has been used as a calming aid for hundreds of years especially when there is excitation or nervousness. Over 120 chemical components are found in valerian and although a very complex herb, it has not been found to have any negative side effects with moderate use. It is calming without exerting too sedative an effect.



## Nervil

complementary feed



**INGREDIENTS:** Valerian extract, melissa extract and magnesium

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Valerian extract, melissa extract and magnesium have strong sedative properties. They act as a muscle relaxant not affecting animal's daily weight gain. They reduce negative effects of stress induced by high temperature, veterinary procedures and transport to slaughterhouses.

**DOSAGE:** 200-250 ml/1000 L drinking water over 3-5 days over the period of 12 h.

**CONTAINERS AVAILABLE:** 1L, 5L

## Antystress

complementary feed



**INGREDIENTS:** magnesium, potassium, sodium, melissa and valerian extract, citric acid, propylene glycol

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Melissa and valerian extract, have strong sedative properties. A balanced mixture of sodium, potassium and magnesium regulates the animal's water balance which also contributes to coping with physiological stress response.

**DOSAGE:** 250-500 ml/1000 L drinking water over 2-5 days in continuous dosing.

**CONTAINERS AVAILABLE:** 5 L



## Urinex

complementary feed



**INGREDIENTS:** trisodium citrate, potassium citrate, ammonium propionate, sodium chloride, potassium chloride, citric acid, vitamin C, extracts of: urtica, birch, equisetum arvense, propylene glycol

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Trisodium citrate, potassium citrate and ammonium propionate cause frequent urination which aids kidney cleansing. Supplementation with plant extracts facilitates this process. Fast kidney cleansing is essential in urinary tract infection, gout, for food poisoning and in case of drug overdose.

**DOSAGE:** 1000 ml/1000 L drinking water over 3-5 days in continuous dosing.

**CONTAINERS AVAILABLE:** 5L

## Hydrotonic+

complementary feed



**INGREDIENTS:** sodium, potassium, magnesium, glycine, glucose, citric acid, anise, inositol, glycol

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Adequate intake of dietary sodium and potassium potentially affect thermoregulation and fluid balance of an animal. They also reduce stress response induced by adverse environmental conditions and transport. Magnesium supplementarily works as a sedative. Aminoacetic acid {NH<sub>2</sub>CH<sub>2</sub>COOH} (glycine) removes toxic substances from the body. Glucose and inositol help reduce energy deficit while anise adds flavor which in turn increases water intake.

**DOSAGE:** 100-200 ml/1000 L drinking water over 5-10 days. In a period of acute stress 500-800 ml/1000 L drinking water in continuous dosing no longer than for 48 h.

**CONTAINERS AVAILABLE:** 5L

## Garlix

complementary feed



**INGREDIENTS:** stabilized garlic extracts, onion or leek extracts and a mixture of organic acids.

Garlix is a product formed on the basis of garlic extracts, onion or leek extracts and organic acids. Stabilized plant extracts obtained from the Allium L. family are present in the product in the form of PTS and PTSO molecules. This lets retain the properties of fresh garlic while organic acids supplementarily maximize their effect.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Stabilized plant extract from the Allium L. family in the form of PTS and PTSO molecules improves absorption of the feed, prevents Enteritis salmonellosis and E.Cola, and reduces the amount of Coccidia and Cryptosporidium. It also minimizes diarrhea, mortality of flocks, demonstrates antibacterial and antiviral properties and reports better egg-laying performance in layer hens;

**DOSAGE:** 500-1000 ml/1000 L drinking water in continuous dosing or 1500-2500 ml/1000 L drinking water over 2-3 days.

**CONTAINERS AVAILABLE:** 5L, 20L

## Livostin

complementary feed



**INGREDIENTS:** choline, carnitine, Trimethylglycine (TMG), sorbitol, artichoke extract, B vitamins: B1, B2, niacin (B3), pantothenic acid (vitamin B5), B6, B12, vitamin K3

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: They enhance liver cell recovery and stimulate bile discharge. They control cholesterol level in blood, having a positive impact on the digestive system, circulatory system and nervous system. They protect against disturbances caused by toxins, viruses and medicines and they lower the level of mortality rate in the period of rearing.

**DOSAGE:** 500 ml-1000 ml/1000 L drinking water over 3-5 days in continuous dosing.

**CONTAINERS AVAILABLE:** 5L





## Vita-Cardio



complementary feed

**INGREDIENTS:** copper, selenium, magnesium, potassium, sodium, vitamin E, arginine, glycine, plant extracts from: crataegus, aesculus and urtica, glucose, citric acid, sodium sulfate, anise, inositol, propylene glycol.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Elements such as copper, selenium, magnesium, sodium and potassium, and also vitamin E and arginine prevent cardiovascular lesions. They stimulate production of erythrocytes, and have vasodilative properties. They prevent platelet and cholesterol sedimentation in vessels preventing thrombosis at the same time. They have sedative properties and they lower blood pressure. They strengthen vascular walls and improve arterial elasticity. Extracts from: crataegus, aesculus and urtica supplementarily facilitate the process.

**DOSAGE:** Turkeys 500 ml/1000 L drinking water while remaining poultry species 250 ml/1000 L drinking water over 3-5 days in continuous dosing.

**CONTAINERS AVAILABLE:** 1L, 5L

## Pro-Stim



complementary feed

**INGREDIENTS:** enzymes (Glucanase and Xylanase), vitamin B1, vitamin B2, niacin (B3), pantothenic acid (vitamin B5), vitamin B6, vitamin B12, vitamin K3, vitamin E, vitamin D3, vitamin A, tryptophan, methionine, threonine, glutamine, polysorbate (Polyoxyethylene (20)-sorbitan monooleate), Glycerol polyethylene glycol ricinoleate, propylene glycol, sodium chloride

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Vitamins from B group activate the enzymes and improve the metabolism. Xylanase and Glucanase improve the feed conversion efficiency which constitutes to better weight gain, better digestion and absorption. Thanks to decreasing the viscosity of the intestine content the conversion of the energy from the ingested feed improves. The product additionally contains well balanced dose of amino acids necessary for proper development. Vitamin K, E, A and D3 increase immunity and supplement possible deficiencies.

**DOSAGE:** 250-500 ml / 1000 L of drinking water for 3-4 days per week for 12h. It is recommended to administer the product in last 2 weeks of breeding.

**AVAILABLE IN CONTAINERS:** 1 L

## *Echinacea purpurea*

It belongs to Asteraceae family and contains a variety of active substances like alkamides, glycoproteins, polysaccharides, phenolic compounds, cinnamic acids, essential oils and flavonoids. Preparations from *Echinacea purpurea* are among the most widely used herbal medicines. Most uses of *E. purpurea* are based on the reported immunological properties. Additionally Solutions made from herb and root proved anti-inflammatory and antioxidant properties. A series of experiments have demonstrated that *E. purpurea* extracts do indeed demonstrate significant immunomodulatory activities.





## Mineralix



### complementary feed

**INGREDIENTS:** a mixture of easily digestible compounds of: calcium, phosphorus, manganese, magnesium, copper, cobalt and zinc.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Major minerals: calcium, phosphorus, manganese, magnesium, copper, cobalt and zinc enable sustainable growth in birds. They improve the strength and pigmentation of the eggshell, allow proper bone mineralization and normal development in early life stages.

**DOSAGE:** 1000 ml/1000 L drinking water over 6 days in continuous dosing.

**CONTAINERS AVAILABLE:** 5L, 10L

## Probiq



### complementary feed

**INGREDIENTS:** Enterococcus faecium, at least  $1,0 \times 10^{12}$  CFU (NCIMB 10415), vitamin C, vitamin D3, B vitamins: B1, B2, niacin (B3), pantothenic acid (B5), B6, B12, dextrin, dextrose.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Lactic acid bacteria contained in the product reinforce a young bird's gut flora, blocking population abundance of potentially pathogenic organisms in the intestine. This translates into faster growth and lesser probability of falling ill in later period of poultry fattening. B vitamins play a role in colonizing the intestine by beneficial bacterial populations. Vitamin D3 stimulates normal bone development – regulates calcium and phosphorus metabolism and increases their absorption in the small intestine (rickets prevention). Vitamin C supports natural immunity and metabolism. High sugar content (dextrin, dextrose) is a rich energy source for young birds.

Dosage 100-200 g/1000 L drinking water over 4-7 days in continuous dosing.

**CONTAINERS AVAILABLE:** 1kg

## Supracid



### complementary feed

**INGREDIENTS:** LSA (lignosulfonic acid), malic acid, citric acid, formic acid, phosphoric acid, propionic acid.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Through the change of pH they affect the regeneration of the intestinal villi, optimize feed absorption, lessen the risk of food poisoning and death loss. They have bactericidal effect on E.Coli and Salmonella bacteria. Supplementary amount of LSA (lignosulfonic acid) has a distinctive impact on the consumption rate: • the product works along the full length of the gastrointestinal tract • the acids are not buffer solutions (they are protected) – there is no loss in the efficiency of individual acids • the steel is protected and corrosion will not occur, therefore it is not subject to ADR • due to the presence of lignin, better granularity is observed • lignin itself has antibacterial effect – the increase of LSA (lignosulfonic acid) inhibits bacterial growth, especially E. coli, C. perfringens, and E. faecium. Thanks to the inhibition of these bacterial strains necrosis is avoided; the digestive system and the urinary system are protected.

**DOSAGE:** 0,5-1,5 kg/1000 kg/1000 L water or compound feed. After administration of antibiotics, 1,5-2,5 kg/1000 L water or compound feed.

**CONTAINERS AVAILABLE:** 5kg, 10 kg, 25kg





## SUGGESTED SUPPLEMENTATION SCHEME FOR BROILER

Doses and time of application may vary in different regions of the world.

DAY	COMPLEMENTARY FEED	DOSE
0	Probiq	100g /1000 L
1	Probiq	100 g /1000 L
2	Garlix	500 ml / 1000 L
3	Garlix	500 ml / 1000 L
4	Vita-Cardio	250 ml / 1000 L
5	Vita-Cardio	250 ml / 1000 L
6	Garlix	750 ml / 1000 L
7	Garlix	750 ml / 1000 L
8	D3-Vit-Forte	1000 ml / 1000 L
9	D3-Vit-Forte	1000 ml / 1000 L
10	D3-Vit-Forte	1000 ml / 1000 L
11	Selemix	Optional in recommended dose
12	Selemix	Optional in recommended dose
13	B-Complex + AD3E	Optional in recommended dose
14	B-Complex + AD3E	Optional in recommended dose
15	Garlix	1000 ml / 1000 L
16	Garlix	1000 ml / 1000 L
17	Vita-Cardio	250 ml / 1000 L
18	Vita-Cardio	250 ml / 1000 L
19	D3-Vit-Forte	400 ml / 1000 L
20	Mineralix	1000 ml / 1000 L
21	D3-Vit-Forte	400 ml / 1000 L
22	Mineralix	1000 ml / 1000 L
23	Mineralix	1000 ml / 1000 L
24	Garlix	1L / 1000 L
25	Garlix	1L / 1000 L
26	Garlix	1L / 1000 L
27	Oregovit	100 ml / 1000 L
28	Oregovit	100 ml / 1000 L
29	Pro-Stim	500 ml / 1000 L
30	Pro-Stim	250 ml / 1000 L
31	Pro-Stim	250 ml / 1000 L
32	Pro-Stim	250 ml / 1000 L
33	Garlix	1200 ml / 1000 L
34	Oregovit	100 ml / 1000 L
35	Oregovit	100 ml / 1000 L
36	Pro-Stim	500 ml / 1000 L
37	Pro-Stim	500 ml / 1000 L
38	Garlix	1200 ml /1000 L
39	Garlix	1000 ml / 1000 L
40	Hydrotonic+	500 ml / 1000 L

- After vaccination: **Probiq** 100 g/1000L + **Livostin** 1L/1000 L (may be administered together).
- After antibiotic treatment: **Probiq** 100 g/1000L + **Livostin** 1L/1000 L (may be administered together)
- While changing feed starter/grower and grower/finisher administer **Supracid** in recommended dose.
- In case of urinary problems **Urinex** in recommended dose.
- In case of respiratory and heat problems **Pulmomix** in recommended dose.
- In case of diarrhoea **Non-Diar+** in recommended dose.
- In case of heat stress problems and transportation **Hydrotonic+** in recommended dose
- In case of fungal problems **Probil** in recommended dose.





**SWINE**



## Garlix

### complementary feed



**INGREDIENTS:** Stabilized garlic extracts, onion or leek extracts and a mixture of organic acids.

Garlix is a product formed on the basis of garlic extracts, onion or leek extracts and organic acids. Stabilized plant extracts obtained from the Allium L. family are present in the product in the form of PTS and PTSO molecules. This lets retain the properties of fresh garlic while organic acids supplementarily maximize their effect.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications:

Stabilized plant extract from the Allium L. family in the form of PTS and PTSO molecules improves absorption of the feed, prevents Enteritis salmonellosis and E.Cola, minimizes diarrhea, reduces mortality in herds and demonstrates antibacterial and antiviral properties.

**DOSAGE:** 500-1000 ml/1000 L drinking water in continuous dosing or 1500-2500 ml/1000 L drinking water over 2-3 days.

**CONTAINERS AVAILABLE:** 5L, 20L

## Garlix T

### complementary feed



**INGREDIENTS:** Stabilized garlic extracts, onion or leek extracts and a mixture of organic acids.

Garlix is a product formed on the basis of garlic extracts, onion or leek extracts and organic acids. Stabilized plant extracts obtained from the Allium L. family are present in the product in the form of PTS and PTSO molecules. This lets retain the properties of fresh garlic while organic acids supplementarily maximize their effect.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications:

Stabilized plant extract from the Allium L. family in the form of PTS and PTSO molecules improves absorption of the feed, prevents Enteritis salmonellosis and E.Cola, minimizes diarrhea, reduces mortality in herds and demonstrates antibacterial and antiviral properties;

**DOSAGE:** 1 kg/1000 kg of feed in continuous dosing or 1,5-2,5 kg/1000 kg of feed over 2-3 days.

**CONTAINERS AVAILABLE:** 1 kg, 2 kg, 5 kg

## Probiq T

### complementary feed



**INGREDIENTS:** Enterococcus faecium, at least 1,0 x 10<sup>12</sup> CFU (NCIMB 10415), vitamin C, vitamin D3, B vitamins: B1, B2, niacin (B3), pantothenic acid (B5), B6, B12, dextrin, dextrose.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Lactic acid bacteria contained in the product reinforce animal's gut flora, blocking population abundance of potentially pathogenic organisms in the intestine. This translates into faster growth and lesser probability of falling ill in later period of fattening. B vitamins play a role in colonizing the intestine by beneficial bacterial populations. Vitamin D3 stimulates normal bone development – regulates calcium and phosphorus metabolism and increases their absorption in the small intestine. Vitamin C supports natural immunity and metabolism. High sugar content (dextrin, dextrose) is a rich energy source.

**DOSAGE:** 100-200 g/1000 L drinking water over 3-5 days in continuous dosing.

**CONTAINERS AVAILABLE:** 1kg

## Spectrum Gel

### complementary feed



**INGREDIENTS:** Stabilized garlic extracts, onion or leek extracts, vitamin A, vitamin E, niacin, vitamin B1, vitamin B2, vitamin B5, vitamin B6, iron, selenium, iodine, glucose syrup, hydrolyzed protein, fructo-oligosacchrides

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications:

They supply animals with specially stabilized active substances which favour proper development of the piglet. Selenium together with vitamin E support fast regeneration of the cells in the organism and helps proper functioning of enzyme system. They supplement the animal with vitamins and minerals necessary for proper development. Stabilized plant extract from the Allium L. family in the form of PTS and PTSO molecules improves absorption of the feed, prevents Enteritis salmonellosis and E.Cola. They also have general antibacterial activity.

**DOSAGE:** 1 delivery of 2 ml after the birth and repeat after 24 hours later if necessary.

**CONTAINERS AVAILABLE:** 100 ml (dispenser)



## Antystress



### complementary feed

**INGREDIENTS:** magnesium, potassium, sodium, melissa and valerian extract, perlite, silica

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Melissa and valerian extract, have strong sedative properties.

A balanced mixture of sodium, potassium and magnesium regulates the animal's water balance which also contributes to coping with physiological stress response.

**DOSAGE:** 0,5 kg/1000 kg of feed over 3-5 days in continuous dosing.

CONTAINERS AVAILABLE: 1,5 kg (bag)

## Garlic

Garlic is an absolute leader in the world of medicinal plants. Thanks to essential oils rich in sulphur compounds and volatile sulphur compounds which are even stronger than penicillin, garlic has been used since ages as a natural antibiotic. It stops bacteria – even those which are becoming resistant to antibiotic – and fights infection. Research has also proved its positive influence on digestive system where it speeds up and increase the secretion of bile. At the same time, as confirmed by clinical examination garlic has no side effects, typical for chemical antibiotics.





## Supracid

complementary feed



**INGREDIENTS:** LSA (lignosulfonic acid), malic acid, citric acid, formic acid, phosphoric acid, propionic acid

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: • Through the change of pH they affect the regeneration of the intestinal villi, optimize feed absorption, lessen the risk of food poisoning and death loss. • They have bactericidal effect on E.Coli and Salmonella bacteria. Supplementary amount of LSA (lignosulfonic acid) has a distinctive impact on the consumption rate: the product works along the full length of the gastrointestinal tract • the acids are not buffer solutions (they are protected) – there is no loss in the efficiency of individual acids • the steel is protected and corrosion will not occur, therefore it is not subject to ADR • due to the presence of lignin, better granularity is observed • lignin itself has antibacterial effect – the increase of LSA (lignosulfonic acid) inhibits bacterial growth, especially E. coli, C. perfringens, and E. faecium. Thanks to the inhibition of these bacterial strains necrosis is avoided; the digestive system and the urinary system are protected.

**DOSAGE:** 0,5-1,5 kg/1000 kg/1000 L water or compound feed. After administration of antibiotics, 1,5-2,5 kg/1000 L water or compound feed.

**CONTAINERS AVAILABLE:** 5kg, 10 kg, 25kg

## Diar Stop

complementary feed



**INGREDIENTS:** Stabilized garlic extracts, onion or leek, medley of organic acids, zinc oxide, silica.

**PROPERTIES OF THE INGREDIENTS** included in the product as mentioned in generally available scholarly publications: Stabilized plant extracts obtained from the Allium L. family together with zinc oxide and organic acids show strong anti-diarrhoeal activity (prevents Enteritis salmonellosis and E.Cola).

**DOSAGE:** Administer 0,5 kg / 1000 kg of feed over 3-4 days. If necessary repeat the treatment after 7 days in the same dose.

**CONTAINERS AVAILABLE:** 1 kg, 5 kg



### *Willow bark*

Willow Bark is the outer shell of the Willow tree. It has been consumed medicinally by ancient Greek and Egyptian physicians for centuries.

It was not until 1829 when scientists discovered its active ingredient salicylic acid which has similar health effects as acetylsalicylic acid (aspirin), that the medicinal use of Willow Bark in ancient times was substantiated.

It also contains tannins, glycosides, catechins and flavonoids. The salicylic acid present in White Willow Bark lowers the body's levels of prostaglandins, hormone-like compounds that can cause aches, pain, and inflammation.

While White Willow Bark takes longer to begin acting than aspirin, its effect may last longer.

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