



No
accumulation
in tissues
No waiting period
necessary

MERIDOL

Natural productivity stimulator

MERIDOL natural productivity stimulators were developed by the research team of the LNB Research and Development Centre. MERIDOL stimulators are complex products containing several phytoncide groups, thanks to which they demonstrate a very wide spectrum of action. Phytoncides are a powerful agent modifying the composition of the microflora of the alimentary tract. Phytoncides do not inhibit the immune system but, quite the contrary, they frequently have an immune stimulating effect. Moreover, it has been found that bacteria rarely develop resistance to phytoncides.

The herbs used in our products have been used in animal fattening since ancient times. Our products contain a combination of a scientifically documented traditional herbal mix and modern forms of stabilised herbal macerates and oils with enzymes and organic acids that have a stabilising and enhancing effect on the active ingredients contained in the herbs, including natural polygalacturonates, pectins, polymer polysaccharides, phytosterines, alkaloids, bitter principles stimulating the alimentary tract, flavonoids, phenol acids, terpenes and glycosides.

Stabilised phytoncides included in the products modify the quantitative and qualitative composition of the alimentary tract microflora, inhibiting the growth and development of pathogenic microbes.

For animal feed mixes, depending on their intended application, we recommend various types of natural growth stimulators, including:

Meridol D_s for starter poultry feed mixes

The supplement demonstrates a systemic and local effect in the alimentary tract, increasing the reserve of energy-rich compounds (ATP, phosphocreatines, GTP, UDP), coenzymes and proenzymes that ensure correct growth and development of a young animal. The preparation enhances growth processes of cartilage and bone tissue, stimulates the endocrine system and, consequently, boosts the secretion of growth hormones.

Meridol D_G for grower and finisher poultry feed mixes

The supplement has a predominantly local effect in the alimentary tract, changing the quantitative and qualitative composition of the microflora. It stimulates effectively the processes of feed digestion and the absorption of nutrients from the intestines into the blood. Polygalacturonates, fructans, inulin and fibrous cellulose are a matrix for the growth and development of symbiotic bacteria.

Meridol D_N for poultry mixes (for the egg-laying period)

The supplement contains phytoncides that favourably affect the qualitative and quantitative composition of the microflora of the alimentary tract, thus reducing the risk of uncontrolled growth of pathogenic bacteria, fungi and protozoa. The product effectively protects liver parenchyma, kidneys and the heart, preventing fibrosis and fatty degeneration, as well as enhancing liver and biliary tract functioning. The product has a powerful lipotropic effect, regulating fat metabolism in the body. Natural immune stimulators increase resistance to diseases and step up processes of tissue detoxication and regeneration

animal- and
environmentally
friendly



LNB[®]
POLAND

The changing consumer market constantly poses new challenges to the food industry and, as we are increasingly able to see nowadays, to all other industry branches participating in the so-called food chain. Also, legal regulations are changed under the growing pressure of the society with a view to ensuring maximum safety of consumers of animal products.

The obligation to abolish the use of antibiotic-based feed additives from the growth stimulators group as of 1st January 2006 has prompted a number of animal feed manufacturers to seek solutions based on natural and frequently underestimated components, including herbs, spices or vegetables. However the great multitude of such plants calls for a thorough investigation of their properties and a knowledge of active substances, so as to be able not only to select plants that best meet our needs, but also to know in what combinations and in what form they can be effectively used. The LNB Research and Development Centre (R&D Centre) has been systematically creating, developing and improving a variety of natural products that can not only replace antibiotic-based stimulators and coccidiostats, but also be very valuable dietary supplements for all animal species.

The R&D Centre team is made up of outstanding experts in biology, medicine and herbalism. In cooperation with an experienced group of technologists specialising in the nutrition of different farm animals, it was possible to develop effective and economical products based on skillfully combined natural plant components enriched with acidifiers, vitamins, microelements and absorbents. Products thus prepared, depending on their composition, may support alimentary tract functions, induce the secretion of enzymes and biliary acids and, consequently, improve the utilization of feed. They can also produce a beneficial effect on the mineral balance in the body, the circulatory system and stimulate the development of natural resistance to infections.



For water fowl, we would like to offer two types of products that are best suited for feed mix preparation methods used on water fowl farms, their technical facilities and raw materials base. Both TopMix 2%-2.5% and Turbo 4%-5% supplementary feed mixes fully meet the demands of all technological groups of water fowl and are a basis for preparing highly nutritive feed mixes.

If necessary, upon our Customer's request, supplementary feed mixes can be additionally enriched with the following components:

- natural herb and spice compositions supporting body's natural defence mechanisms
- natural herb and spice compositions supporting and protecting the liver
- natural mineral compositions supporting the mineral balance and improving the resistance of eggshells

Framework diagram of products included in the offer for water fowl

Product type (concentration)	Contains	Can be supplemented by
Top-Mix supplementary animal feed mixes and premixes 2%-2.5%	synthetic amino acids, macroelements – sodium and phosphorus, microelements, vitamins and other additives, including natural components, cereal enzymes	<ul style="list-style-type: none"> • chalk • extracted meals • fish meal (if used) • cereal-based components
Turbo supplementary animal feed mixes and premixes 4%-5% on a protein carrier	synthetic amino acids, macroelements – calcium, phosphorus and sodium, microelements, vitamins and other additives, including natural components and cereal enzymes	<ul style="list-style-type: none"> • extracted meals • fish meal (if used) • cereal-based components • chalk – applies only to breeding hens



Parameters of supplementary feed mixes 2%-2.5% for water fowl

Components	Measurement unit in 1 kg	Starter	Grower / Finiszer	Laying hen
Share in feed		2,5 %	2,5 % - 2%	2,5 %
Total protein	%	10,5	8,8	5,7
Metabolic energy	kcal	600	518	362
Raw fat	%	0,12	0,21	0,21
Salt	%	11,5	11,2	8,8
Sodium	%	5,5	5,4	4,8
Calcium	%	12,7	16,0	17,9
Total phosphorus	%	13,0	11,6	10,8
Absorbable phosphorus	%	12,3	10,7	10,0
Lysine	%	3,7	3,4	2,0
Methionine	%	9,2	6,2	4,0
Methionine with cystine	%	9,2	6,2	4,0
Vitamin A	j.m.	480 000	400 000	600 000
Vitamin D ₃	j.m.	120 000	100 000	140 000
Vitamin E	mg	1 600	1 000	2 000
Vitamin K ₃	mg	96	80	120
Vitamin B ₁	mg	48	40	80
Vitamin B ₂	mg	192	160	600
Nicotinic acid	mg	1 200	1 200	1 600
Pantothenic acid	mg	480	400	800
Vitamin B ₆	mg	144	120	200
Vitamin B ₁₂	mcg	960	800	2 400
Biotin	mcg	8 000	4 000	12 000
Choline chloride	mg	16 000	14 000	20 000
Folic acid	mg	48	40	80
Iron	mg	2 000	1 800	2 400
Manganese	mg	32 000	2 880	4 000
Copper	mg	600	432	600
Zinc	mg	2 800	2 520	4 000
Iodine	mg	40	36	60
Cobalt	mg	20	18	30
Selenium	mg	12	10	12
Antioxidant	+	+	+	+
Cereal enzymes	+/-	+/-	+/-	+/-

TopMix

to be supplemented with chalk

SUPPLEMENTARY FEED MIXES 2%-2.5%

FOR GEESE AND DUCKS

ADVANTAGES OF THE PRODUCTS

✓ a successful compromise between flexibility and convenience of feed mix preparation

BENEFITS OF USE

↑ healthy and problem-free rearing and stable egg yield

Sample full-ration mixes for water fowl

Components	Measurement unit 1 kg	Starter 0-4 weeks			Grower 5-8 weeks			Finiszer from the 9th week			Laying hen			
Wheat	kg	433	419	684	310	636	406	365	610	614	230	361	550	520
Maize	kg	250	250		250		250	200			247	250		
Oats	kg				150	90	50	200	150	200	250	125	200	230
Wheat bran	kg							40	55		35			
Soy extracted meal 46%	kg	255	234	226	192	174	168	94	79	96	153	107	107	111
Sunflower extracted meal 37%	kg		30				75			58		73	50	
Rape oil cake 10% fat	kg			20	50	50		75	75					50
Fish meal 58-60%	kg	15	15	15										
Soy oil	kg	13	18	21	18	20	20		5	5			9	5
Chalk	kg	9	9	9	5	5	6	6	6	7	60	59	59	59
2,5% Starter	kg	25	25	25										
2,5% - 2% Grower / Finiszer	kg				25	25	25	20	20	20				
2,5% Laying hen	kg										25	25	25	25
TOTAL	kg	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000
Nutritive value of mixes														
Total protein	%	19,81	19,80	19,80	17,90	17,91	17,90	15,50	15,51	15,73	15,51	15,56	15,50	15,49
Metabolic energy	kcal	2 891	2 891	2 890	2 871	2 869	2 869	2 748	2 747	2 749	2 595	2 604	2 600	2 598
Raw fat	%	3,67	4,18	4,12	4,90	4,41	4,41	3,49	3,45	2,91	2,96	2,60	3,19	3,29
Raw fibre	%	2,42	2,94	2,61	4,11	3,64	4,16	5,05	4,77	5,10	4,61	4,57	4,79	4,60
Sodium	%	0,17	0,17	0,16	0,16	0,15	0,16	0,13	0,12	0,12	0,15	0,14	0,13	0,13
Calcium	%	0,84	0,84	0,85	0,73	0,73	0,75	0,69	0,70	0,70	2,82	2,78	2,79	2,81
Absorbable phosphorus	%	0,46	0,47	0,46	0,41	0,40	0,42	0,37	0,37	0,35	0,43	0,43	0,42	0,42
Lysine	%	1,09	1,06	1,05	0,95	0,91	0,88	0,75	0,72	0,70	0,79	0,71	0,71	0,75
Methionine	%	0,54	0,55	0,54	0,44	0,43	0,45	0,38	0,38	0,38	0,35	0,37	0,35	0,35
Methionine with cystine	%	0,88	0,89	0,88	0,79	0,78	0,79	0,71	0,71	0,71	0,65	0,67	0,66	0,67



Turbo

SUPPLEMENTARY FEED MIXES 4%-5% WITH A PROTEIN CARRIER FOR GEESE AND DUCKS

ADVANTAGES OF THE PRODUCTS

- ✓ preliminarily mixed on a protein carrier
- ✓ contain a broad range of amino acids

BENEFITS OF USE

- ⬆ high productivity
- ⬆ convenient and safe preparation of feed mixes

Parameters of supplementary feed mixes 4%-5% for water fowl

Components	Measurement unit in 1 kg	Duck / Geese Starter	Duck / Geese Grower / Finisher	Laying hen
Share in feed		5%	5% - 4%	5%
Total protein	%	17	17,5	21
Metabolic energy	kcal	812	914	1062
Salt	%	5,8	5,6	4,4
Sodium	%	2,8	2,7	2,4
Calcium	%	14,9	13,6	8,5
Total phosphorus	%	6,8	6,2	6,9
Absorbable phosphorus	%	6,2	5,5	6
Lysine	%	2,5	2,3	1,8
Methionine	%	4,8	3,4	2,4
Methionine with cystine	%	5	3,7	2,8
Vitamin A	j. m.	240 000	200 000	300 000
Vitamin D ₃	j. m.	60 000	50 000	70 000
Vitamin E	mg	800	500	1000
Vitamin K ₃	mg	48	40	60
Vitamin B ₁	mg	24	20	40
Vitamin B ₂	mg	96	80	300
Nicotinic acid	mg	600	600	800
Pantothenic acid	mg	240	200	400
Vitamin B ₆	mg	72	60	100
Vitamin B ₁₂	mcg	480	400	1 200
Biotin	mcg	8 000	2 000	6 000
Choline chloride	mg	8 000	7 000	10 000
Folic acid	mg	24	20	40
Iron	mg	1 000	900	1 200
Manganese	mg	1 600	1 440	2 000
Copper	mg	300	216	300
Zinc	mg	1 400	1 260	2 000
Iodine	mg	20	18	30
Cobalt	mg	10	9	15
Selenium	mg	6	5	6
Antioxidant		+	+	+
Cereal enzymes		+/-	+/-	+/-

Sample full-ration mixes for water fowl

Components	Measurement unit in kg	Starter 0-4 weeks			Grower 5-8 weeks			Finisher from the 9 th week			Laying hen			
Wheat	kg	416	412	665	338	664	305	245	612	607	265	361	550	520
Maize	kg	200	250		250		338	250			250	250		
Oats	kg	60		15	115	55	50	298	200	200	200	120	190	230
What bran	kg										30			
Soy extracted meal 46%	kg	241	223	214	179	161	162	92	73	88	140	100	100	102
Sunflower extracted meal 37%	kg		30							60		60	40	
Rape oil cake 10% fat	kg			20	50	50		75	75					30
Fish meal 58-60%	kg	15	15	15										
Soy oil	kg	18	20	21	18	20	20			5	5		10	8
Chalk	kg										60	59	60	60
5% Starter	kg	50	50	50										
5%-4% Grower / Finisher	kg				50	50	50	40	40	40				
5% Laying hen	kg										50	50	50	50
TOTAL		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Nutritive value of feed mixes

Total protein	%	19,79	19,80	19,78	17,90	17,91	17,91	15,50	15,51	15,89	15,58	15,59	15,59	15,30
Metabolic energy	kcal/kg	2869	2890	2870	2871	2870	2870	2754	2760	2740	2608	2602	2598	2605
Raw fat	%	4,24	4,38	4,17	4,85	4,36	4,64	3,88	3,08	2,96	3,38	2,64	3,32	3,47
Raw fibre	%	3,03	3,06	2,85	4,05	3,57	4,38	5,71	4,92	5,32	4,44	4,62	4,86	4,74
Sodium	%	0,17	0,17	0,16	0,16	0,15	0,16	0,13	0,12	0,12	0,14	0,14	0,13	0,13
Calcium	%	0,92	0,92	0,93	0,83	0,83	0,81	0,69	0,70	0,67	2,82	2,79	2,83	2,84
Absorbable phosphorus	%	0,47	0,47	0,47	0,41	0,41	0,42	0,36	0,35	0,35	0,43	0,43	0,43	0,42
Lysine	%	1,08	1,06	1,05	0,94	0,90	0,88	0,76	0,72	0,70	0,78	0,71	0,71	0,73
Methionine	%	0,55	0,56	0,54	0,45	0,44	0,46	0,39	0,38	0,39	0,35	0,37	0,36	0,35
Methionine with cystine	%	0,89	0,90	0,89	0,79	0,78	0,80	0,73	0,72	0,72	0,66	0,68	0,67	0,66



LONOMIXY® are LNB-developed mineral and combined mineral-and-vitamin products supplementing animal feeds with different groups of vitamins and trace elements whose deficiency leads to reduced productivity. Lonomixes can be added directly to animal feed or dissolved in water (concerns some of the preparations).

The vitamin demand rises mainly in stressful situations caused by high temperature, animal care procedures (e.g. vaccinations), weakness following diseases and after antibiotic treatment. In intensive breeding, the physiological load of bred animals is very high, resulting from quick growth or maximum production. Therefore, it is advisable to give the animals vitamin additives so as to prevent production breakdown due to vitamin deficiency.

Regular cooperation with a veterinarian is very valuable for animal breeders, as veterinarians are able to specify what vitamins and minerals are missing in the animals' diet and recommend a matching Lonomix.

Lonomix parameters

Components	Measurement unit in 1 kg	1010	1011	1014	1016	1012	1028	1029
		B - komplet	AD ₃ E	AD ₃ EC	H-Pant	Mikro-Min	Anty-Stres	Se-E-C
Calcium	%							
Sodium	%							
Vitamin A	j.m.		35 000 000	24 000 000			1 600 000	
Vitamin D ₃	j.m.		6 500 000	4 500 000				
Vitamin E	mg		40 000	40 000			6 400	40 000
Vitamin K ₃	mg							
Vitamin B ₁	mg	1 000						
Vitamin B ₂	mg	3 000						
Vitamin B ₆	mg	1 000						
Vitamin B ₁₂	mcg	6 700						
Vitamin C	mg	13 300		150 000			48 000	50 000
Pantothenic acid	mg	2 000			6 000			
Nicotinic acid	mg	4 000						
Folic acid	mg	600						
Biotin	mcg	67 000			220 000			
Iron	mg					10 000	8 000	
Manganese	mg					18 000		
Copper	mg					2 000		
Zinc	mg					16 000	3 300	
Iodine	mg					300		
Cobalt	mg					100		
Selenium	mg					100	36	250

Lonomix B Komplet – a soluble multivitamin supplement

Intended use: LONOMIX B Komplet is a universal additive for all animal species and technological groups, making up for deficiencies of water-soluble vitamins. The additive prevents reduced weight gain and alimentary tract disorders. Also, it improves egg yield and egg hatching in parent stocks and boosts health of chicken and turkey broilers. It is particularly recommended for poultry.

Administration: the product should be used for a short period (2-3 days) when the vitamin intake from the feed may be insufficient, e.g. during stress, after vaccinations, in the case of poor quality of feed (e.g. due to fungal attack), etc. The product should be dissolved in water in the amount of 50-150g per 100 l or as a feed additive in the amount of 100-300g/100kg.

LONOMIX AD₃E – a soluble multivitamin supplement

Intended use: LONOMIX AD₃E is a multivitamin supplement supporting the immune system by ensuring a correct structure of cell membranes thanks to vitamins A and E. LONOMIX AD₃E also helps prevent night blindness, while vitamin D has an antirachitic effect, regulating the calcium and phosphorus balance. The product is recommended for young animals in the phase of intensive skeletal development and laying hens during intense egg production.

Administration: The product should be used for 2-4 days in highly stressful situations in the case of high production rate, change of feed or after pharmacological treatment and in the case of production disturbances, reduced weight gain, etc. The product should be dissolved in water in the amount of 8-15g per 100 l or as a feed additive in the amount of 15-30g/100kg.

**LONOMIX AD₃EC – a soluble multivitamin supplement**

Intended use: LONOMIX AD₃EC is a multivitamin supplement supporting immune system. Vitamin C increases the biological effect of vitamin E. Vitamin A helps prevent night blindness and thanks to vitamin D₃ the supplement has an antirachitic effect, regulating the calcium and phosphorus balance. The product is recommended for young animals in the phase of intensive skeletal development and laying hens during intensive production.

Administration: The product should be used for 2-4 days in highly stressful situations in the case of high production rate, change of feed, reproduction disorders or after pharmacological treatment. The product should be dissolved in water in the amount of 10-25g per 100 l.

LONOMIX H-Pant – a soluble multivitamin supplement

Intended use: LONOMIX H-Pant is a supplement containing biotin and pantothenic acid. Deficiencies of these vitamins occur most frequently in breeding stocks of hens, geese and turkeys and in intensive fattening of chicken and turkey broilers.

Administration: The product should be dissolved in water in the amount of 15-25g per 100 l or mixed with feed according to the following scheme: chicken broilers, laying hens in the rearing phase 30-50 g per 100 kg of feed, turkey broilers 40-80 g per 100 kg of feed, parent stock 50-100 g per 100 kg of feed.

LONOMIX Mikro-Min – a soluble mineral supplement

Intended use: LONOMIX Mikro-Min is a universal mineral supplement containing a set of basic microelements in the form of highly absorbable water-soluble compounds. The supplement makes it possible to make up for deficiencies of trace elements playing a key role in enzymatic reactions. Also, it supports reproductive processes, the development of epithelial tissues and the skeletal system and stimulates correct muscle work.

Administration: the product can be mixed with feed in the amount of 100-150 g per 100 kg of feed as a supplementation and in the amount of 250-350 g per 100 kg of feed as a basic supplement.

LONOMIX Anty-Stres – a soluble vitamin and mineral supplement

Intended use: LONOMIX Anty-Stres is a vitamin and mineral supplement used in the nutrition of laying hens and poultry parent stocks. Thanks to a special combination of vitamins and trace elements developed by LNB Poland, the supplement is exceptionally effective in the elimination of consequences of the so-called "stock fatigue" caused by stress factors (high temperature, vaccinations, intensive production).

Administration: the supplement should be administered for 10-14 days if the overall condition of the animals is found to be worse than usual, in the case of appetite loss, reduced egg yield and hatching efficiency. After 10-14 days, the product should be discontinued for 50-60 days. The supplement should be dissolved in water in the amount of 200-250 g per 100 l or as a feed additive in the amount of 400-500 g per 100 kg of feed.



LONOMIX Se-E-C – a soluble vitamin and mineral supplement

Intended use: LONOMIX Se-E-C is an additive supporting the immune system. Also, it prevents death resulting from heart muscle dysfunctions in quickly growing birds. A synergic effect of vitamin E and selenium, supported by an antioxidant action of vitamin C, protects cellular structures and ensures correct muscle work.

Administration: The product should be used for 4-5 days in periods when birds are under a particularly heavy load due to intensive growth (in chicken broilers the period usually begins after the 4th week of fattening). The product should be dissolved in water in the amount of 50-100g per 100 l.

LONOMIX Lonacid-Drób - a feed acidifier for poultry

Intended use: Lonacid is an acidifying additive for loose poultry feed mixes. By reducing the pH of the contents of the alimentary tract, the product demonstrates a stabilizing effect on the composition of the bacterial flora. In this way, adverse effects of raw materials with strong buffer properties can be reduced. Organic acids contained in the product (propionic acid, formic acid) and their salts inhibit fungal growth, thus reducing the possibility of mycotoxin secretion. Lonacid also has a conservation effect on feeds and feed components. In this case, dosage depends on a number of factors that should be taken into account when using the product. These factors include the conditions and duration of feed components storage and their humidity. Lonacid is a mixture of organic acids. Mixtures of acids and their salts have a synergic effect and their proper combinations produce a better effect in poultry nutrition than the use of one acid only, even in very high doses. The product enhances the use of feed components, stabilizes the bacterial flora of the alimentary tract, increases weight gain dynamics, prevents the growth of pathogenic bacteria and is an additional source of energy in feed. Moreover, it makes it possible to effectively control the Salmonella levels in feeds and feed components without adverse effects on other feed components.

Composition: mixture of organic acids and their salts and a carrier (aluminosilicates).

Administration: Lonacid is recommended in the nutrition of all poultry species and technological groups after mixing with feed. The dosage is as follows:

Chickens and turkey broilers:	2-3 kg/t of a full-portion feed mix
Laying hens:	2 kg/t of a full-portion feed mix

LONOMIX Lonozym – a universal enzymatic premix

Intended use: LONOMIX Lonozym is a multienzymatic premix used to enrich the composition of pig and poultry feeds. The product contains two enzymes, xylanase and beta-glucanase with basic activity and some quantity of cellulase. The enzymatic composition ensures a high decomposition efficiency of the so-called non-starch polysaccharides commonly present in local cereals and classified as anti-nutritive substances. The most important of these are arabinoxylanes (wheat, triticale, rye) and beta-glucanases (barley and oats). These compounds are not decomposed in animal alimentary tracts, where they increase the viscosity of the intestinal contents, hinder the digestion of feed ingredients and water resorption. Lonozym makes it possible to decompose these polysaccharides and facilitates their digestion, thanks to which feed usability is greatly improved. Lonozym allows for a correct balancing of feed mixes, increased energy value of feed, improved utilization of nutrients (proteins and amino acids) in the feed, enhanced effectiveness of stimulators, coccidiostats and dyes added to feed and improved hygiene conditions in livestock buildings.

Administration: LONOMIX Lonozym can be used in feed mixes for all poultry technological groups. Depending on the maize content and composition of other cereals in the mix, the recommended dose is 0.8-1.2 kg/t of mix.

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**LONOMIX Bioantyseptox – a bactericidal, fungicidal and virucidal preparation**

Product description: since the product contains thymol, guaiac resin, menthol and cinnamic aldehyde, it prevents the growth of pathogenic parasites; inhibits the development of protozoa (including amoebas, coccidia and infusorians), bacteria, viruses, fungi and parasitic arthropods; destroys mould and deactivates fungal toxins. Montmorillonite, tannin, natural silica, layered aluminosilicate and calcinated cellulose effectively absorb excess humidity from the bedding. The product disinfects litter in animal-keeping facilities, repels flies, biting lice, mites, fleas and mosquitoes. Volatile components of the product clean, refresh and disinfect the air up to a height of 150 cm from the ground. Also, the preparation has a high absorbing capacity and absorbs microtoxins, bacterial toxins, aerosol allergens, liquid excretions and secretions of animals. LONOMIX Bioantyseptox directly and effectively eliminates biological and chemical pathogenic factors before they produce disease symptoms and ensures animal-keeping in hygienic conditions. Silicic Acid, sodium bicarbonate, formates, tannin and essential oil components efficiently damage insect and mite larvae, thus preventing their development.

Intended use: to disinfect and dry animal bedding, disinfect and refresh air in animal-keeping facilities, neutralize unpleasant odours and sanitise animal excretions, repel flying insects and destroy invertebrates living in the bedding.

Administration: Spread the product evenly on the surface to be disinfected, e.g. bedding or floor once per 2-4 weeks. Depending on the level of bedding humidity and impurity, the product should be used in the amount of 50-100 g/m².

LONOMIX Neutromix – a product neutralizing bacterial and fungal toxins

Product description: plant components containing thymol, eugenol and tannins, sorbic acid, propionates and formates display a preserving and absorbing action, neutralizing toxins produced by mould fungi and bacteria and excretions and secretions produced by insects and mites. Thanks to the presence of tannin, eugenol and essential oils, the product helps to bind unpleasant odours and hinder the decomposition of proteins and fats included in the feed. Silica, bentonite and aluminosilicates with an appropriate physical and chemical structure prevent feed lumping. Plant-based components induce the secretion of digestive enzymes, thus improving the utilization of feed.

Intended use: to improve the hygiene and health of animals feeds, preserve and stabilize feed components, neutralise bacterial and fungal toxins that may be present in feeds.

Administration: 2-5 kg/t of feed, depending on the degree of feed infestation with fungi and bacteria.

LONOMIX Skubi – for geese and ducks

Intended use: LONOMIX Skubi, the supplementary feed mix is designed for geese after plucking and in other cases in which breeders want to stimulate feather growth. The product contains a specially designed composition of methionine and biotin and zinc in forms easily absorbable by birds. The product should be mixed into a full-ration feed mix prepared on a water fowl farm.

Administration: 2-2.5 kg per 1 tonne of full-ration feed mix.