

## PREMIXES FOR CARNIVOROUS FURRED ANIMALS

It is our aim to create products which meet individual needs of animals in particular production periods. Therefore our offer perfectly fits the animals' demands in particular periods, i.e. copulating, pregnancy and littering, growing and development of the young as well as the time of forming the hair coat. Designing the offer in this way is also reasonable in terms of economics. Feeding the animals with only indispensable vitamins, minerals and bioactive compounds in a particular period contributes to reducing the production cost, at the same time maintaining its high quality.

The level of absorption of some minerals depends on their chemical forms. All forms of minerals that we use in our products are absorbed in the best possible way. Apart from the iron chelate we apply zinc chelate, and the premix Super Start contains selenium in an organic form.

**Dosage:** 1kg per 1 tonne of fodder (for each premix).

### LNB Poland offers the following premixes:

**Lonaris** - the base premix to be applied throughout the whole animal feeding time.

**Super Włos** - the premix is recommended for feeding furred animals as a supplementation of the Lonaris premix at the time of forming the hair coat, from July to November.

**Super Start** - the premix administered to animals in the pre-oestrous period, in the oestrous period, pregnancy and lactation as a supplementation of Lonaris premix.

- The product contains L-Carnitine which facilitates the metabolism of fats and increases prolificacy of females.
- The additional dose of choline protects the liver in case of excessive body weight in the pregnancy and lactation period.
- The additional dose of iron and vitamin C limits to the minimum a possibility of developing anaemia.
- The folic acid reduces mortality of embryos and also contributes to a better development of the young.

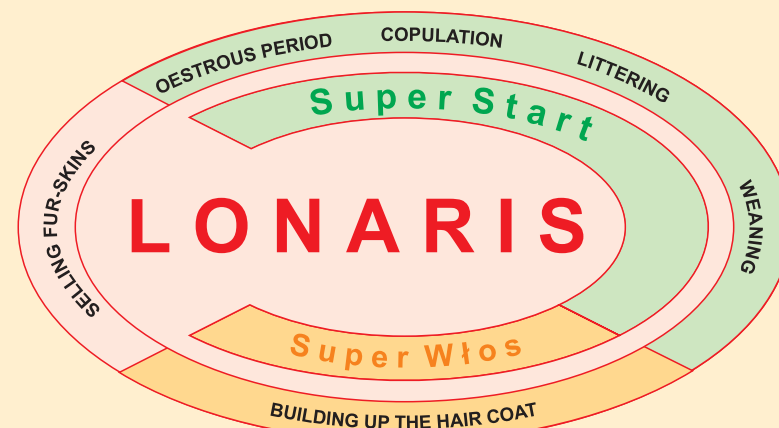
### PREMIXES PARAMETERS

Ingredients	Unit of meas. (in 1 kg)	7597	7598	7599
		Lonaris	Super Włos	Super Start
Methionine	%	-	53,00	-
Vitamin A	IU	3 750 000	-	1 200 000
Vitamin D <sub>3</sub>	IU	375 000	-	120 000
Vitamin E	mg	42 000	-	42 000
Vitamin K <sub>3</sub>	mg	1 000	-	-
Vitamin B <sub>1</sub>	mg	20 000	-	-
Vitamin B <sub>2</sub>	mg	3 000	-	-
Nicotinic acid	mg	10 500	-	-
Pantothenic acid	mg	3 900	-	-
Vitamin B <sub>6</sub>	mg	2 900	-	-
Vitamin B <sub>12</sub>	mcg	21 000	-	14 000
Biotin	mcg	300 000	350 000	-
Choline chloride	mg	50 000	-	50 000
Vitamin C	mcg	-	50 000	200 000
Folic acid	mg	290	-	265
Magnesium	%	4,50	-	-
Iron	mg	25 000	-	10 000
Manganese	mg	12 000	-	-
Copper	mg	1 100	-	-
Zinc	mg	8 500	10 000	-
Iodine	mg	160	-	-
Cobalt	mg	300	-	-
Selenium	mg	300	-	140
L-Carnitine	mg	-	-	40 000
Micro. in org. compounds		+	+	+
Glucose		+	+	+
Antioxidant		+	+	+

**NEW**

### Advantages from using premixes:

- distinct oestrous signals
- improved prolificacy and embryos survival rates
- no symptoms of anaemia
- healthy and strong skin
- fast growth of the young
- improved immunity to diseases
- higher profit for the breeders



## A NEW COMPLETE SET OF 7% SUPPLEMENTARY FEED MIXTURES FOR CARNIVOROUS FURRED ANIMALS „FOUR SEASONS”

The “Four Seasons” programme was designed to maximally meet the carnivorous furred animals' demand for vitamins and minerals. The high quality carrier extruded wheat and maize is the source of highly digestible carbohydrates.

**Dosage:** 70 kg per 1000 kg of fodder (for each mixture).

### Advantages of products of the „Four Seasons” programme

- **Winter**  
In this production period the main aim is a fast weight loss in animals. This requires intensive functioning of the liver and increased catabolism of fats. For this purpose L- Carnitine has been added to the feed mixture, which facilitates fat burning and thus promotes weight loss in animals. The high level of choline has a protective effect on the liver, preventing animals' deaths resulting from damaging the liver cells hepatocytes.
- **Spring**  
The time of stimulation of the female reproductive organs functions. In order to increase the prolificacy, higher doses of vitamins A, D<sub>3</sub>, E have been added. The folic acid prevents embryos resorption, and vitamin C along with selenium in organic compounds decrease results of stress which negatively affects the hormone production. Thanks to the L- Carnitine the female reproductive organs lose the fat, which significantly improves the female prolificacy. The higher level of iron chelate reduces the effects of the lowered content of haemoglobin in blood serum at the end of pregnancy.
- **Summer**  
The time of fast growth and development of animals. The ingredients of particular importance at that time are vitamins and minerals which prevent from anaemia and improve immunity of the young. Therefore, the product contains vitamin B<sub>12</sub>, high-dose iron in the form of chelate and vitamin C which facilitates iron absorption from the alimentary tract. Vitamin E, together with selenium in organic compounds and zinc chelate, strengthens the immune system, thus decreasing the animals' vulnerability to diseases. The feed mixture contains powdered whey, powdered milk, and HTST processed linseed. The lactose added in the form of powdered whey and milk accelerates the growth of the young and improves the condition of mothers.
- **Autumn**  
After the intensive growth period it is necessary to take care of the hair coat. Strong, dense hair is ensured due to the combination of pantothenic acid, methionine, biotin and zinc chelate. One of the ingredients is HTST processed linseed which improves hair appearance.

### FEED MIXTURES PARAMETERS

Ingredients	Unit of meas. (in 1 kg)	7540	7541	7542	7543
		Winter	Spring	Summer	Autumn
Metabolic energy	kJ	1 100	1 100	1 100	1 100
Total protein	%	10,00	10,00	10,50	11,50
Crude fat	%	3,50	4,50	4,50	4,50
Calcium	%	0,20	0,20	1,20	0,20
Total phosphorus	%	0,30	0,30	1,50	0,30
Methionine	%	-	-	-	2,00
Lactose	%	-	-	4,00	-
Magnesium	%	0,06	0,06	0,06	0,06
Vitamin A	IU	53 600	71 000	53 600	53 600
Vitamin D <sub>3</sub>	IU	5 360	7 100	5 360	5 360
Vitamin E	mg	600	1 200	1 000	600
Vitamin K <sub>3</sub>	mg	14,30	14,30	14,30	14,30
Vitamin B <sub>1</sub>	mg	286	286	286	286
Vitamin B <sub>2</sub>	mg	43	43	43	43
Nicotinic acid	mg	300	150	150	150
Pantothenic acid	mg	56	56	56	100
Vitamin B <sub>6</sub>	mg	41,50	41,50	41,50	41,50
Vitamin B <sub>12</sub>	mcg	300	500	500	300
Biotin	mcg	7 150	4 300	4 300	8 000
Choline chloride	mg	2 860	1 430	715	715
Vitamin C	mcg	-	2 860	2 860	-
Folic acid	mg	4,20	8,00	8,00	4,20
Iron	mg	360	500	500	350
Manganese	mg	170	170	170	170
Copper	mg	28,50	28,50	28,50	28,50
Zinc	mg	286	286	286	310
Iodine	mg	2,30	2,30	2,30	2,30
Cobalt	mg	4,30	4,30	4,30	4,30
Selenium	mg	4,30	6,30	6,30	4,30
L-Carnitine	mg	4 000	2 000	-	-
Antioxidant		+	+	+	+

### ADMINISTRATION

For every period of the production cycle a special system of vitamins, minerals and bioactive substances has been designed, as well as an appropriate selection of feed components.

- Winter** the feed mixture administered in the period from selling fur-skins (November-December) to about 2 weeks before starting the oestrous period (February-March).
- Spring** the feed mixture administered in the pre-oestrous period (February March) until littering (April May)
- Summer** the feed mixture administered from littering (April May) to July.
- Autumn** the feed mixtures administered from July until the time of fur-skins selling.

