

An aerial photograph of a tractor pulling a large agricultural sprayer through a vast, lush green field of crops, likely corn. The rows of crops are perfectly straight and densely packed, stretching far into the distance. The tractor is positioned in the center of the frame, moving away from the viewer. The overall scene is one of a well-maintained and productive agricultural landscape.

**PRECO INVEST**  
Investing in nature

## **PRECOCARE**

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Humic feed additive  
in farm poultry &  
animal's diets





# Bringing back wealth to nature

The products and the technology are based on a careful attitude toward natural resources, recreation, and the sustenance of an ecosystem that is safe for life



# CREATED BY NATURE

The products contain only eco-friendly organic components:

- lake sapropel
- low-moor peat
- lake water



## ECO-FRIENDLY

The components are extracted from environmentally pristine deposits and mountain lakes, away from industrial enterprises and urban settlements.

## A HEALTHY ENVIRONMENT

"PRECOCARE" contains humic and fulvic acids, which ensure ecologically clean breeding of livestock, fur animals and poultry in case of pollution by nitrates, herbicides, pesticides, contamination by heavy metal compounds and ionizing radiation.



## SAFELY

"PRECOCARE" is a complex of elements created by nature itself that positively and safely affect the health of animals and poultry.



# “PRECOCARE” IS BENEFIT & CARE

By adding a 0.2% aqueous solution of the “PRECOCARE” humic additive to the diet of livestock and poultry, the overall nutritional efficiency is increased by 10–20%.

It enables, at the same feed and labor costs and keeping conditions, to ensure an increase in live weight of 5–12%, a reduction in mortality of 13–18%, and a reduction of feed flow per unit of weight gain of 5–10%.

Also, to improve animal and poultry bodies' resistance to adverse environmental conditions and residual toxins in feed.



## **PROFITABLE**

Helps to improve nutrient intake and feed efficiency.

# CHARACTERISTICS

## Composition :

- Humic substances in dry matter., %:  $\geq 85$
- Density, g/cm<sup>3</sup>:  $\geq 1,05-1,1$
- Humidity, %: 85-90%
- pH: 7,3-9,5
- Preparative form: liquid

## CHEMICAL COMPOSITION, mg/l:

<b>Ph</b>	7,3-9,5				asparagine	210-237	
<b>Humin Acids</b>			12000-15000		threonine	70-93	
<b>Fulvic Acids</b>			$\leq 10000$		serine	100-124	
<b>Dry matter</b>			6,3%		glutamine	280-320	
		<b>microelements</b>		<b>macronutrients</b>	proline	275-321	
		Cu	0,70-0,99	N	2 095-2 326	glycine	72-93
		Zn	0,40-0,70	K	106-144	alanine	175-206
		Mn	1,18-3,80	Fe	60-96	valine	110-144
		Mg	122-198	Ca	80-128	methionine	61-82
				P	30-150	isoleucine	59-82
						leucine	156-168
				<b>vitamins</b>		tyrosine	80-103
		A	0,106-0,125	B5	0,0130-0,154	phenylalanine	160-186
		E	0,075-0,095	B6	0,014-0,018	histidine	220-258
		B1	0,010-0,016	Bc	0,0025-0,0042	lysine	158-186
		B2	0,027-0,056	K3	0,0027-0,0038	arginine	76-83
		B3	0,034-0,045	B12	0,00007-0,00009		

Amino acids

## EFFECT

- ✓ accelerating farm animal and poultry growth, lowering morbidity and mortality, increasing their bodies' resistance to adverse environmental conditions, and reducing residual toxins in feed
- ✓ reduction of the release of ammonia by the gastrointestinal biome of animals and poultry, as well as from manure (droppings)
- ✓ has an adsorbing effect in the digestive tract of animals. Protein toxins and toxic substances bind, their absorption is noticeably reduced
- ✓ when compared to feeding without humic additives, newborn animals and poultry gain more live weight



# PRECOCARE for ANIMALS

Humic feed additive for commercial and other animals



Unique

Significantly accelerates weight gain, vitality, and health.



Safe

Animal and human-safe, with no allergenic or carcinogenic properties.



Eco-friendly

Contains only natural, organic plant ingredients.



Cost-efficient

Helps to improve nutrient intake and feed efficiency



# APPLICATION AND DOSAGE for animals

Type and age of animals	Daily dosage per 1 kg of live weight	Period of application/interruption of use
<b>Pregnant cows 30 days before calving</b>	0.5 ml with feed	15 days / 10 days
<b>Milking cows</b>	0.5 ml with feed, silage	15 days / 10 days
<b>Calves 2-6 months</b>	0.5 ml with feed	15 days / 10 days
<b>Calves from 10 days to 2 months of age</b>	0.4 ml with skimmed milk, porridge	60 days
<b>Suckling piglets</b>	0.4 ml with milk, porridge	15 days / 10 days
<b>Weaned piglets</b>	0.5 ml with feed	15 days / 10 days
<b>Sows 4-5 weeks before farrowing</b>	0.5 ml with feed	60 days
<b>Ewes, Goats</b>	0.5 ml with feed, silage	15 days / 10 days
<b>Young sheep, goats up to 4 months</b>	0.4 ml with feed	15 days / 10 days
<b>Young goats 4-8 months</b>	0.5 ml with feed	15 days / 10 days
<b>Horses, Camels</b>	2 ml with feed	28 days / 28 days
<b>Rabbits</b>	0.4 ml with feed	15 days / 10 days
<b>Cats and dogs</b>	0,4 ml with drinking water	30 days/ 30 days

The humic feed additive for animals has no acute or chronic toxicity and, in the case of accidental overdose, has no negative effect on the animal's body. However, exceeding the recommended dosages is not economically profitable since it does not give a further increase in productivity or enhance other positive effects of the product.



# TESTS PERFORMED on animals

## Influence of humic feed additive "PRECOCARE" on the increase in live weight of young cattle

Index	Group	
	test	control
<b>Calf live weight, kg</b>		
- test start	<b>34,8±0,56</b>	35,2±1,16
- in one week	<b>39,1±0,81</b>	38,1±1,06
- on the 15th day of test	<b>42,5±0,99</b>	40,3±1,41
<b>Live weight gain for the test period, kg</b>	<b>7,7</b>	5,1
<b>Average daily gain in live weight of a calf, gram</b>	<b>513</b>	340
<b>%</b>	<b>150,9</b>	100

From the 10th to the 25th day of life, a humic feed additive was added to the drink in a daily dose of 1.2 ml of working solution per 1 kg of live weight for animals in the prophylactic age test group.

Live weight increased by an average of 4.3 kg per week in calves given the humic feed additive; it increased by 2.9 kg in control animals.

During the test period, the average daily gain in the test group turned out to be higher than in the control group by 173 g, or by 50.9%.





# PRECOCARE for POULTRY

Humic feed additive for commercial and other birds



## Unique

Significantly accelerates weight gain, vitality, and health.



## Safe

Animal and human-safe, with no allergenic or carcinogenic properties.



## Eco-friendly

Contains only natural, organic plant ingredients.



## Cost-efficient

Helps to improve nutrient intake and feed efficiency



# APPLICATION AND DOSAGE for poultry

Type and age of animals	Daily dosage	Period of application/interruption of use
Broiler chickens	2 l per 1,000 liters of drinking water	The whole period
Laying hens	2 l per 1,000 liters of drinking water	30 days / 7 days
Turkey, ducks, geese, ostriches	2 l per 1,000 liters of drinking water	30 days / 7 days
Chickens	2 l per 1,000 liters of drinking water	48 days / 30 days

The humic feed additive for poultry has no acute or chronic toxicity and, in the case of accidental overdose, has no negative effect on the animal's body. However, exceeding the recommended dosages is not economically profitable since it does not give a further increase in productivity or enhance other positive effects of the product.

The addition of "PRECOCARE" to the feed should be based on the animal's need for calcium, a normal ratio of phosphorus to calcium, and vitamins. Since there is much less phosphorus in "PRECOCARE" than calcium, it is advisable to add phosphorus supplements to the feed if necessary.



# TESTS PERFORMED on poultry

## Influence of humic feed additive "PRECOCARE" on the metabolism of broilers during the first 35 days of life

INDEXES	Control	Test
<b>Initial livestock</b>	350	350
<b>Preservation, %</b>	98,0	98,6
<b>Live weight of 1 head (gram) at the age</b>		
<b>1 day</b>	48	48
<b>7 days</b>	163,4	165,2
<b>14 days</b>	431,6	439,3
<b>21 days</b>	798,2	816,4
<b>28 days</b>	1253,2	1338,8
<b>35 days</b>	1777,2	1859,6
<b>Daily gain during the growing period:</b>		
gramm	49,5	51,8
%	100	104,9
<b>Feed consumption per 1 kg of live weight gain during the rearing period:</b>		
kg	1,76	1,67
%	100	94,8
<b>The content of vitamins in the liver at the end of the experiment, µg / g:</b>		
<b>vitamin A</b>	149,94	164,61
<b>vitamin B<sub>2</sub></b>	8,60	9,17
<b>Blood hemoglobin content at the end of the experiment, %</b>	4,16	4,86
<b>Content in the backbone of the elements, %:</b>		
<b>- Ca</b>	13,47	14,03
<b>- P</b>	5,48	5,91
<b>Ash content in the tibia, %</b>	32,15	33,30

The use of a humic feed additive contributed to an increase in the live weight of broilers of 4.6% compared to the control group.

Despite the rather high indicators of the average daily gain in live weight in the control group (49.4 g for 35 days of life), drinking the feed additive made it possible to increase the gain in live weight by 4.9%.

At the same time, feed consumption per unit of live weight gain during the rearing period was 1.67 kg, or 5.2% lower than in the control group.

The output of pectoral muscles in broilers of the experimental group was higher by 1.2-4.5%, depending on gender.

# Economic efficiency

The efficiency of using a humic feed additive "PRECOCARE" when growing broiler chickens of the Sibiryak cross


Indexes	Control	Test
Initial livestock, heads	1 000,00	1 000,00
Preservation, %	98,00	98,60
Delivered for slaughter, heads	980,00	986,00
Live weight of 1 head, g	1 777,20	1 820,00
Carcass yield,%	67,20	67,20
Obtained meat, kg	1 194,28	1 223,04
Average selling price of 1 kg of meat, \$	0,65	0,65
Proceeds from the sale of meat, \$	780,4	799,2
Feed consumption, total, kg	3 052,00	2 850,00
"PRECOCARE" consumed for the period, ml	-	7 240,00
Cost of 1 liter of "PRECOCARE", \$		4,6
Feed cost, \$	0,3	
without "PRECOCARE"	48 832,00	
with drug "PRECOCARE"		47 627,20
The difference between the proceeds from the sale of meat and the cost of feed, \$	17,3	21,2
The effectiveness of using the drug without taking into account other costs, \$	-	3,8
Profit, %	100,00	122,01%

The economic efficiency from the use of a humic feed additive, "PRECOCARE," taking into account a decrease in feed consumption per unit of live weight gain and an increase in the safety and weight indicators of broilers when growing 1000 broilers, is higher compared to the control by 22.01%



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