



FISUGARPEPTIDE
BIOLOGY



Product Catalog (2019)

Headquarter:

WLT Group
FISUGARPEPTIDE BIOLOGY ENGINEERING CO., LTD
Add: No.8 Hengshan Road, Luan Economic and Technological
Development Zone, Anhui Province, China
P.C: 237000

Tel: +86-564-3933519 Fax: +86-564-5151258
E-mail: sales@fisugarspeptide.com
<http://www.fisugarspeptide.com>

Branch:

HEFEI FISUGARPEPTIDE BIOTECH CO.,LTD
Add: No.18 Dawan Road, Juchao Economic and Technological
Development Zone, Chaohu, Anhui Province, China
P.C: 238000

<http://www.fisugarspeptide.com>





Company Introduction

WLT Group with its factories Fisugarpeptide Biology Engineering Co.,LTD and Hefei Fisugarpeptide Biotech Co.,LTD is a National High-tech Enterprise, professionally engaged in R & D and production of high-grade feed biological ingredients and mainly focus on biological pre-digestion products.



Established on
9th, Nov., 2010



About 300
existing staffs



Three biological
fermentation
bases



Annual Sales
Income more than
RMB 500 million



Lu'an Fermentation Base

We also pay much attention on Production and Research Cooperation. It is a big chance and bright future for us to have cooperated with Academician Yin Yulong, Chinese Academy of Engineering on building academician workstation.

Forerunner of Biological Feed Ingredients - WLT Group



Chaohu Fermentation Base

WLT Vision

Introduce the new technology and new products of human nutrition to animal nutrition, develop to be a safe, economic and efficient forerunner of biological feed ingredients.

WLT Mission

Specialized in biochemical, based on feed ingredients, acted as breeding base.

Company Culture



Qualifications



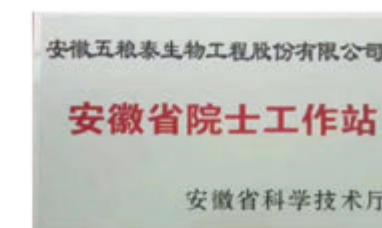
ISO9001&ISO22000



Invention Patents & Utility Model Patent

Honors

National High-Tech Enterprise
Anhui Province Academician Workstation
Agricultural Industrialization Leading Enterprise of City Level
Local Enterprise with an advantage in IPRs
Luan Identification Enterprise Technology Center
Luan Engineering Technology Research Center





Emulsified fat powder based on five fermented feedstuffs and compound polysaccharide
—Wuliangtai

WLT (short for Wuliangtai) is a probiotic fermented product using corn, rice, flour (or fish meal or condensed fish solubles), soybean meal, compound oil, utilizing self-breeding ultra-high sugar-resistant, acid-resistant, permeation-resistant, acid-producing strains, adopting national invention patent advanced technology.

- ✓ Not only contains Emulsified Fat, Maltodextrin, Glucose, Fructose, Lactic Acid, but also rich in small peptide, CLA(conjugated linoleic acid), Selenium Yeast, Probiotics, Oligose, Biological Enzyme, Calcium Lactate and the unnamed growth factor.
- ✓ A kind of emulsified fat powder combined with emulsified fat, compound polysaccharide and enzymatic hydrolysis fermentation feed, the later two of which are as carrier, perfectly realize the mutual improvement among them.



- ✓ **Slightly emulsified fat, sweet and sour, feed intake increasing**
Fermented and emulsified to nanoparticles fat, high absorptivity, contains emulsified fat, polysaccharide, biological enzyme, increasing digestibility and palatability, feed intake increased up to 8%. The effect is especially obvious and stable in the long run.
- ✓ **Small peptide, growth-promoting**
Stimulate lactation, rich in small peptide, Yeast protein, increasing ADG above 6%, milk yield up to 12%.
- ✓ **Decreasing Diarrhea**
Immunity increasing, avoid diarrhea, contains lactic acid, Calcium lactate, and Immune Factors, decreasing Diarrhea rate above 50%.

Nutritional ingredients

Item	Index	Item	Index	Item	Index
Moisture /%	≤ 8.0	Crude Ash /%	≤ 6.0	L- Lactic acid /%	≥ 2.0
Crude protein /%	≥ 18.0	Calcium /%	≤ 2.0	Peroxide valuemg/g	≤ 5.0
Small peptides and amino acid /%	≥ 2.0	Calcium Lactate /%	≥ 1.0	Probiotics cfu/g	$\geq 0.5 \times 10^6$
Crude fat /%	≥ 10.0	Total phosphorus /%	≤ 1.8	Bacillus licheniformis cfu/g	$\geq 0.2 \times 10^6$
Emulsified fat /%	≥ 8.0	Available phosphorus /%	≤ 0.30	Bacillus subtilis cfu/g	$\geq 0.2 \times 10^6$
Maltodextrin /%	≥ 12.0	Lysine /%	≥ 0.65	Bacillus coagulans cfu/g	$\geq 0.1 \times 10^6$
Fructose /%	≥ 25.0	Methionine /%	≥ 0.26	Water solubility /%	≥ 50.0
Glucose /%	≥ 20.0	Threonine /%	≥ 0.52	Starch /%	No Purple Color under iodine
Crude fiber /%	≤ 6.0	Tryptophan /%	≥ 0.18	-	-

Usage

Use for the preparation of feed for anthony pig, coservation piglet, milking sow, calf & lamb and etc.

Recommended Dosage:

- ✓ Anthony pig creep feed: 60-80 kg/ton;
- ✓ Piglet coservation feed: 40-60 kg/ton;
- ✓ Milking sow feed: 30-50 kg/ton;
- ✓ Calf & Goat feed: 40-60 kg/ton

Product Storage:

Keep away from light in a cool, dry place
Do not pile up over three layers to prevent caking after squeezing

Packing Specifications:

25 kg/bag

Product Shelf life:

6-9 months

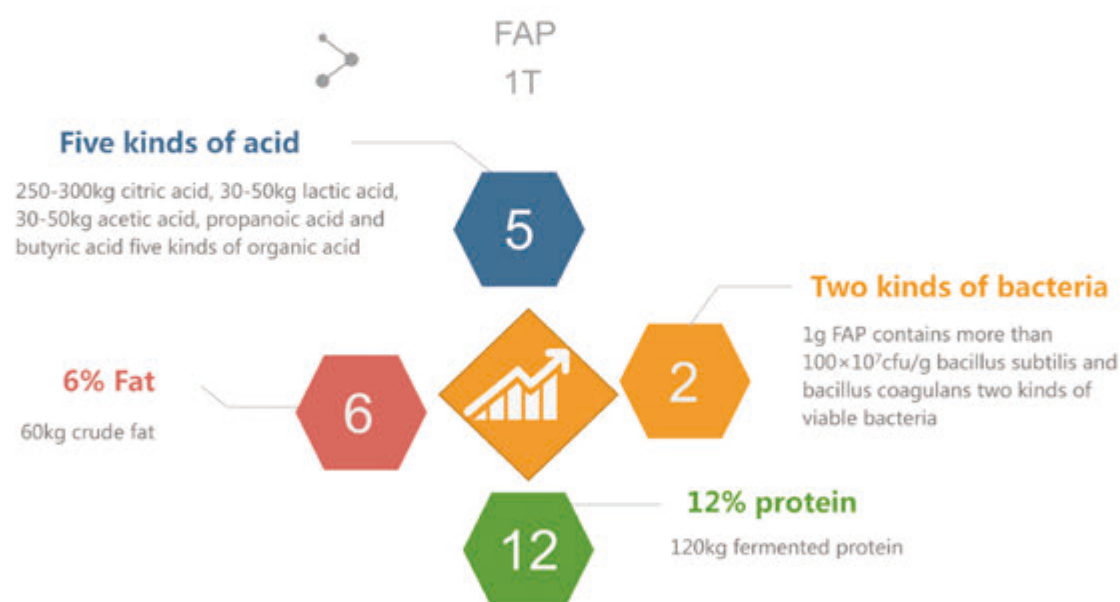




High-acid fermented feed rich in organic acids and probiotics - Five Acid Peptide

FAP (short for Five Acid Peptide) is acidified enzymatic hydrolysis fermented feed using corn, broken rice, soybean meal, soybean oil, fish meal/whey powder, utilizing self-breeding ultra-high sugar-resistant, acid-resistant, permeation-resistant, acid-producing strains, adopting national invention patent advanced technology.

- ✓ Rich in Citric Acid, Lactic Acid, Acetic Acid, Propanoic Acid, Butyric Acid, Probiotics, active small peptide (including antibacterial peptide), high sweet Oligose, Yeast Protein, Biological Enzyme, Vitamin, Organic Acid Calcium, Leaven fragrant & sweet element and the unnamed growth factor.
- ✓ Organic acid combined with probiotics and enzymatic hydrolysis fermented feed, perfectly realize the mutual improvement among them.
- ✓ Eight functions: liking drinking, anti-diarrhea, heavy-milking, growing fast, treating enterovirus syndrome, producing more eggs, resisting stress and purify intestines and water.
- ✓ In short, the main nutritional ingredients of "FAP" are as following:



- ✓ **Functional Compound, mutual effect, production performance improving**
ADG of livestock, poultry, fish and shrimp increased by more than 7.0%, meat ratio and bait coefficient reduced by more than 5%, egg-laying rate increased by more than 6%, piglets diarrhea rate decreasing above 80%, poultry enterovirus syndrome cure rate up to 90% or more, fish and shrimp cure rate of a serious illness of "belly" up to 85% or more.
- ✓ **Acid smells delicious, feed intake increasing**
Five feedstuffs rich in active small peptide, high sweet obligose, abundant organic acid and emulsified fat, acid smells delicious, aromatic character and agreeable taste, good feeding Attraction, feed intake increased up to 8%.

- ✓ **Etching coated, most enter the intestine, good effect of curing intestinal and purifying water**

Organic acid etching and infiltrating during the process of enzymolysis and fermentation, natural coated, no stimulation and damage to the oral cavity, esophagus and gastrointestinal mucosa of animals.

Nutritional ingredients

Item	Index	Item	Index	Item	Index
Moisture/%	≤ 10.0	Acetic acid/%	≥ 2.0	Soluble carbohydrate/%	≥ 1.50
Crude protein/%	≥ 10.0	Propanoic acid/%	≥ 1.0	Lysine/%	≥ 0.21
Small peptides and dissociated Amino acids/%	≥ 0.50	Butyric acid/%	≥ 1.0	Methionine/%	≥ 0.15
Crude fat/%	≥ 3.0	Crude fiber/%	≤ 8.0	Threonine/%	≥ 0.19
Total acid (in the case of lactic acid)/%	≥ 50.0	Crude ash/%	≤ 12.0	Tryptophan/%	≥ 0.06
Citric acid/%	≥ 25.0	Calcium/%	≤ 3.0	Total probiotics cfu/g	$\geq 10 \times 10^7$
Lactic acid/%	≥ 3.0	Total phosphorus/%	≤ 3.0	Small molecular nutrition content/%	≥ 40.0

Usage

Use for the preparation of feed for anthony pig, coservation piglet, milking sow, calf & lamb, meat & egg-laying poultry and aquatic animals.

- ✓ Anthony pig creep feed: 15-30 kg/ton;
- ✓ Piglet conservation feed: 10-20 kg/ton;
- ✓ Milking sow feed: 5-10 kg/ton;
- ✓ Calf & lamb feed: 10-20 kg/ton;
- ✓ Meat & egg-laying poultry feed: 5-10 kg/ton;
- ✓ Aquatic animal feed: 10-20 kg/ton

Product Storage:

Keep away from light in a cool, dry place
Do not pile up over three layers to prevent caking after squeezing

Packing Specifications:

25kg or 40 kg/bag

Product Shelf life:

12-18 months

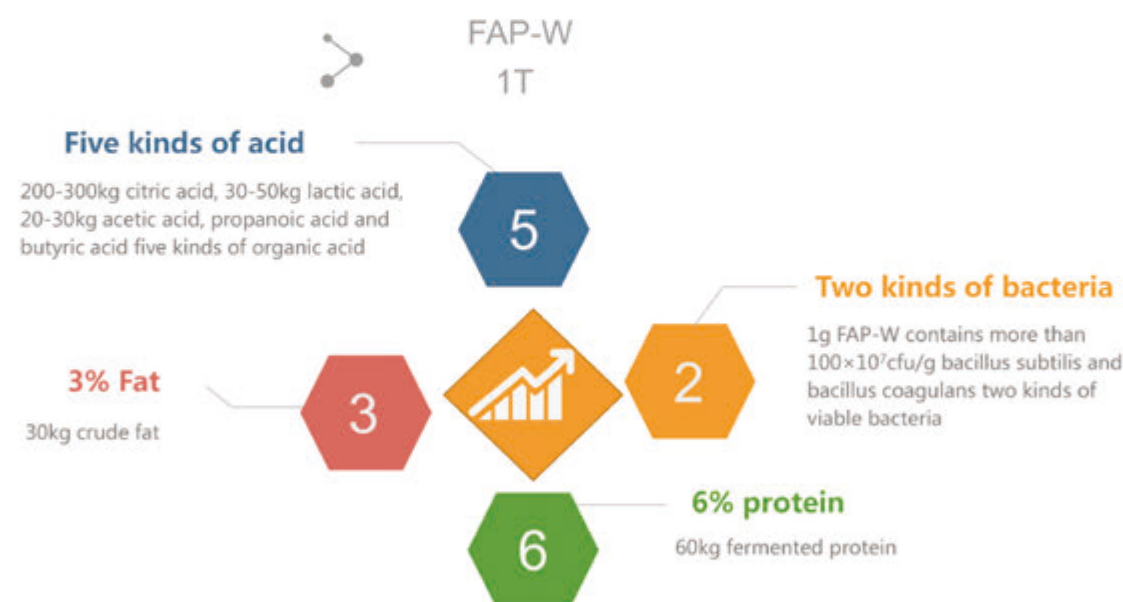




High-acid fermented feed rich in organic acids and probiotics - Five Acid Peptide - wet mash

FAP-W (short for Five Acid Peptide - wet mash) is acidified enzymatic hydrolysis fermented feed using corn, broken rice, soybean meal, wheat and corn protein powder, utilizing self-breeding ultra-high sugar-resistant, acid-resistant, permeation-resistant, acid-producing strains, adopting national invention patent advanced technology.

- ✓ Rich in Citric Acid, Lactic Acid, Acetic Acid, Propanoic Acid, Butyric Acid, Probiotics, active small peptide (including antibacterial peptide), high sweet Oligose, Yeast Protein, Biological Enzyme, Vitamin, Organic Acid Calcium, Leaven fragrant & sweet element and the unnamed growth factor.
- ✓ Organic acid combined with probiotics and enzymatic hydrolysis fermented feed, perfectly realize the mutual improvement among them.
- ✓ Eight functions: liking drinking, anti-diarrhea, heavy-milking, growing fast, treating enterovirus syndrome, producing more eggs, resisting stress and purify intestines and water.
- ✓ In short, the main nutritional ingredients of "FAP-W" are as following:



- ✓ **Functional Compound, mutual effect, production performance improving**
ADG of livestock, poultry, fish and shrimp increased by more than 7.0%, meat ratio and bait coefficient reduced by more than 5%, egg-laying rate increased by more than 6%, piglets diarrhea rate decreasing above 80%, poultry enterovirus syndrome cure rate up to 90% or more, fish and shrimp cure rate of a serious illness of "belly" up to 85% or more.
- ✓ **Acid smells delicious, feed intake increasing**
Five feedstuffs rich in active small peptide, high sweet obligose, abundant organic acid and emulsified fat, acid smells delicious, aromatic character and agreeable taste, good feeding attraction, feed intake increased up to 8%.

- ✓ **Etching coated, most enter the intestine, good effect of curing intestinal and purifying water**

Organic acid etching and infiltrating during the process of enzymolysis and fermentation, natural coated, no stimulation and damage to the oral cavity and esophagus, same to gastrointestinal mucosa of animals.

Nutritional ingredients

Item	Index	Item	Index	Item	Index
Moisture/%	≤ 60.0	Acetic acid+Propanoic acid+Butyric acid/%	≥ 1.0	Calcium/%	≤ 2.0
Total acid (in the case of lactic acid)/%	≥ 30.0	Crude protein/%	≥ 8.0	Total phosphorus/%	≤ 2.0
Citric acid/%	≥ 20.0	Small peptides and dissociated Amino acids/%	≥ 0.25	Total LAB cfu/g	$\geq 10 \times 10^7$
Lactic acid/%	≥ 2.0	Crude fat/%	≥ 2.0	Total probiotics cfu/g	$\geq 20 \times 10^7$

Usage

Use for the preparation of feed for anthony pig, coservation piglet, milking sow, calf & lamb, meat & egg-laying poultry and aquatic animals.

Recommended Dosage:

- ✓ Anthony pig creep feed (feed factory): 30-60 kg/ton;
- ✓ Piglet conservation feed (feed factory): 25-50 kg/ton;
- ✓ Milking & pregnant sow feed (feed factory): 20-40 kg/ton;
- ✓ Calf & lamb feed (feed factory): 20-40 kg/ton;
- ✓ Meat & egg-laying poultry feed (feed factory): 15-30 kg/ton;
- ✓ Aquatic animal feed (feed factory): 25-50 kg/ton
- ✓ Anthony pig creep feed (farm): 60-80 kg/ton;
- ✓ Piglet conservation feed (farm): 50-60 kg/ton;
- ✓ Milking & pregnant sow feed (farm): 30-50 kg/ton;
- ✓ Calf & lamb feed (farm): 50-60 kg/ton;
- ✓ Chicken and Duck feed (farm): 30-50 kg/ton;
- ✓ Aquatic animal feed (farm): 50-60 kg/ton

Product Storage:

Keep away from light in a cool, dry place

Do not pile up over three layers to prevent caking after squeezing

Packing Specifications:

40 kg/bag

Product Shelf life:

6 months



Feed Acidifier based on five fermented feedstuffs and emulsified fat - Five Sugar Acid

FSA (short for Five Sugar Acid) is an organic acid acidifier using corn, rice, soybean meal, grease, fish meal / corn protein powder, utilizing self-breeding ultra-high sugar-resistant, acid-resistant, permeation-resistant, acid-producing strains, adopting national invention patent advanced technology.

- ✓ Rich in Citric Acid, Lactic Acid, Acetic Acid, Propanoic Acid, Butyric Acid, Emulsified Fat, active small peptide (including antibacterial peptide), high sweet Oligose, Yeast Protein, Probiotics, Biological Enzyme, Vitamin, Organic Acid Calcium and the unnamed growth factor.
- ✓ A kind of etching-coated type compound organic acid acidifier combined acidifier with enzymatic hydrolysis fermentation feed and emulsified fat, the later two of which are as carrier, perfectly realize the mutual improvement among them. Different from the mixed feed acidifier in effective component, cost-performance and actual feeding effect.



- ✓ Eight functions: liking drinking, anti-diarrhea, heavy-milking, growing fast, treating enterovirus syndrome, producing more eggs, resisting stress and purify intestines and water.
- ✓ In short, the main nutritional ingredients of "FSA" are as following:



- ✓ **Compounded organic acid, mutual effect, production performance improving**
Making up for the lack of gastric acid, acidification of the gastrointestinal tract, restraining harmful bacteria, good effect of antibacteria and prevention and treatment of diarrhea, decreasing diarrhea rate above 80%, poultry enterovirus syndrome cure rate up to 90% or more.
- ✓ **Acid smells delicious, feed intake increasing**
Five feedstuffs rich in active small peptide, high sweet obligose, abundant organic acid and emulsified fat, acid smells delicious, aromatic character and agreeable taste, good feeding attraction, feed intake increased up to 8%.
- ✓ **Less stimulus and damage**
Organic acid etching and infiltrating during the process of enzymolysis and fermentation, natural coated, no stimulation and damage to the oral cavity and esophagus, same to gastrointestinal mucosa of animals.

Nutritional ingredients

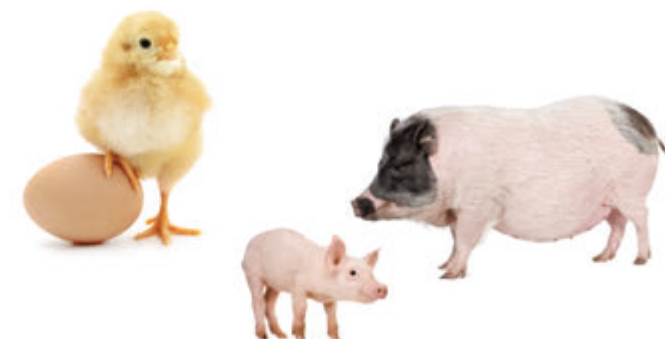
Item	Index	Item	Index	Item	Index
Moisture/%	≤10.0	Crude protein/%	≥10.0	Soluble carbohydrate/%	≥0.50
Total acid (in the case of lactic acid)/%	≥60.0	Small peptides and dissociated Amino acids/%	≥0.25	Lysine/%	≥0.21
Citric acid/%	≥35.0	Crude fat/%	≥3.0	Methionine/%	≥0.15
Lactic acid/%	≥5.0	Crude fiber/%	≤8.0	Threonine/%	≥0.19
Acetic acid/%	≥2.0	Crude ash/%	≤12.0	Tryptophan/%	≥0.06
Propanoic acid/%	≥1.0	Calcium/%	≤3.0	Total probiotics cfu/g	≥0.1×10 ⁴
Butyric acid/%	≥1.0	Total phosphorus/%	≤3.0	Small molecular nutrition content/%	≥40.0

Usage

Use for the preparation of feed for anthony pig, coservation piglet, milking sow, calf & lamb, meat & egg-laying poultry and aquatic animals.

Recommended Dosage:

- ✓ Anthony pig creep feed: 5-8 kg/ton;
- ✓ Meat & egg-laying poultry feed: 3-5 kg/ton;
- ✓ Piglet coservation feed: 4-6 kg/ton;
- ✓ Milking sow feed: 3-5 kg/ton;
- ✓ Calf & lamb feed: 3-5 kg/ton;
- ✓ Aquatic animal feed: 4-6 kg/ton



Product Storage:

Keep away from light in a cool, dry place

Do not pile up over three layers to prevent caking after squeezing

Packing Specifications:

25kg or 40 kg/bag

Product Shelf life:

12-18 months





Compound sugar and sour paste mainly composed of compound polysaccharides, probiotics and organic acids - Fisugaracid Plus Probiotics

FSA+Pr(short for Fisugaracid Plus Probiotics) is an high-grade feed compound sugar and sour paste, using corn, broken rice, wheat, utilizing self-breeding ultra-high sugar-resistant, acid-resistant, permeation-resistant, acid-producing strains, adopting national invention patents advanced technology.

- ✓ Rich in Maltodextrin, Isomaltose, Glucose, Fructose, Oligose, Acidophilus Lactobacillus, Dung Enterococcus, Urine Enterococcus, Citric Acid, Lactic Acid, Organic Calcium, Organic Iron, Organic Zinc, Vitamin C, Leaven fragrant & sweet element and unknown growth factor.
- ✓ Eight functions: liking drinking, anti-diarrhea, heavy-milking, growing fast, treating enterovirus syndrome, producing more eggs, resisting stress and purify intestines and water.
- ✓ In short, the main nutritional ingredients of "FSA+Pr" are as following:



- ✓ **Starch enzymed to be esugar and acid, most of the nutrients dissolved into water and good drinking and feeding effect of livestock and poultry**
Diarrhea rate of Piglets decreased by more than 80%, ADG of piglets increased by more than 6.0%, milk production of lactating sows increased by more than 10%, feed intake increased by more than 8.0%, egg-laying rate increased by more than 6%, meat ratio decreased by more than 5.0%, labor process of sows shortened by 1-2 hours, poultry enterovirus syndrome cure rate up to 90% or more.
- ✓ **Functional compound, mutual improvement and good feeding effect of fish and shrimp**
Regulate the intestinal tract of aquatic animals, reduce the pH of water, increase the dissolved oxygen in water, inhibit harmful bacteria, and have a good effect of resistance to diseases and stress. Applied in aquaculture and feed, reduce the stress response of water environmental change, protect the beneficial algae and bacteria, aquatic animal growth rate increased by more than 7%, bait coefficient reduced by more than 5%, fish and shrimp cure rate of a serious illness of "belly" up to 85% or more.

Nutritional ingredients

Item	Index	Item	Index	Item	Index
Moisture/%	≤60.0	Isomaltose/%	≥2.5	Acetic acid+Propanoic acid+Butyric acid/%	≥0.5
Glucose/%	≥25.0	Oligose	≥2.5	Organic trace minerals and vitamin/%	≥1.0
Maltodextrin/%	≥5.0	Citric acid/%	≥5.0	Total LAB cfu/g	≥80×10 ⁷
Fructose/%	≥2.5	Lactic acid/%	≥2.0	Total probiotics cfu/g	≥100×10 ⁷

Usage

Suitable to be added to drinking water or feed of livestock & poultry and pond water or feed of aquatic animals.

Recommended Dosage: (1 mu = 0.16 acre)

TYPE	Fisugaracid agent	Probiotics agent
Suckling piglet(drinking water)	30-300 kg/ton	2000-3000 g/ton
Conservation piglet (drinking water)	5-6 kg/ton	1000-2000 g/ton
Milking & pregnant sow (drinking water)	3-5 kg/ton	150-250g/ton
Calf and lamb (drinking water)	2-3 kg/ton	500-1000 g/ton
Fish, shrimp and turtle (water surface)	3-5 kg/mu	150-250 g/mu
Crab, frog, eel and loach (water surface)	4-6 kg/mu	250-350g/mu
Shellfish and fresh snake(water surface)	5-8 kg/mu	300-400g/mu
Livestock and poultry (feed)	5-10 kg/ton	250-500 g/ton
Fish, shrimp, crab and shellfish (feed)	4-8 kg/ton	300-600 g/ton

Product Storage:

Keep away from light in a cool, dry place

Do not pile up over three layers to prevent caking after squeezing

Packing Specifications:

10 kg/bag 10 kg/barrel

Product Shelf life:

6 months