



Fisugarpeptide Biology Engineering Co., Ltd

Nutrimilk Product Presentation











Hantech Biology - Leader of Biological Feed











Glucose



Citric Acid Monohydrate



Decoloration





vitaming



x minerals



Industrial Wastewater

Does the feed industry need to do like this?





Five Purposes

- ✓ Lighten the burden of digestion
- ✓ Lower anti-nutritional factors
- ✓ Improve digestive efficiency
- ✓ Provide stress nutrition
- √ Improve palatability





A New Generation of Predigestion Technology of Raw Materials

4 Major Series - 5 kinds of Featured Products:

- Emulsified fermented feed
- Acidified fermented feed

Extruded fermented feed

■ Diastatic fermented feed





Main Products



























Major confusions in the feed and breeding industry







R & D Ideas

Nutrimilk

Instant Milky High-Protein Emulsified Fat Powder

- ✓ Coating agents: baked & fermented protein and compound polysaccharide
- ✓ Artificial coffee mate/chocolate + antigen-free peptide/soluble protein + artificial honey





Fat+Sugar+Protein



Providing a perfect balance of nutrition





How is Nutrimilk effective in performance?

✓ Micro-emulsified Fat, well coated

Vegetable oil homogenized and emulsified into nano-fat (5nm), rich in emulsified fat, medium-chain fatty acid, with a long shelf life and high digestive energy.



✓ Easily digestible polypeptides are quick to absorb

Protein baked and fermented into antigen free polypeptide & soluble protein, easy to digest and absorb. Piglets, calves and lambs grow fast without ailment.







How is Nutrimilk effective in performance?

✓ Polysaccharified Starch, abundant active nutrients, fast absorption rate

Starch fermented into polysaccharides & acids, nutrient-rich, fast energy supply, balanced nutrition, nutrients are fast and easy to absorb. Breeding females can quickly recover after delivering with little to no loss of weight.



✓ Eliminate heaty fever, remove toxins & chemical residues

Product is designed to reduce inflammation and other complications, including fever, tear spots and dry skin in the delivery process.







Features

1. Appearance



Milky & cream white, no oil trace on surface.

2. Smell



Fermented milk and bean, strong scent of butter.





Features

3. Taste



Melts in the mouth without residue, sweet like honey.

4. Solubility



Rapidly and completely soluble in water, no nutrient precipitation, no oil-water separation.





Features

5. lodine test



An iodine test in aqueous solution does not show blue, showing that the starch has degraded completely.

6. Sample test

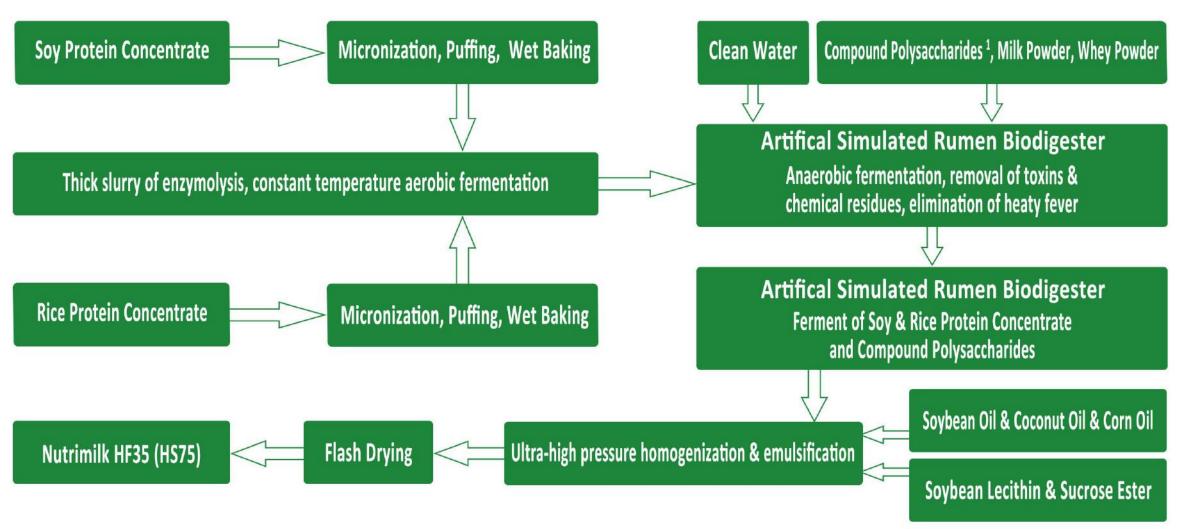


High protein content; very low in surface oil, acid value, peroxide value, soybean antinutritional factor, mycotoxin, solvent residue and fat in feces.





Production Process



Remark: 1. Compound Polysaccharides contain Moltodextrin, Fructose, Glucose, Sucrose, Oligose.







Puffing

Baking

Enzymolysis & Fermentation

Homogenization & Emulsification



Nutrimilk HF35

10

One kind of acid

more than 10kg organic acid

10% polypeptide & protein

100kg antigen free polypeptide and soluble protein

Four kinds of sugar & SDF

350kg maltodextrin & maltose, 50kg glucose & fructose, 50kg sucrose & galactose & lactose & oligose and 50kg soluble dietary fiber

Two kinds of probiotics

1g Nutrimilk HF35 contains more than 1.0×10⁵ CFU/g Yeast and lactobacillus

Three kinds of missible oil

350kg emulsified soybean oil or coconut oil or corn oil and modified soybean lecithin or sucrose ester



Nutrimilk HS75

10

One kind of acid

more than 10kg organic acid

10% polypeptide & protein

100kg antigen free polypeptide and soluble protein

Four kinds of sugar & SDF

600kg maltodextrin & maltose, 100kg glucose & fructose, 50kg sucrose & galactose & lactose & oligose and 50kg soluble dietary fiber

Two kinds of probiotics

1g Nutrimilk HS75 contains more than 1.0×10⁵ CFU/g Yeast and lactobacillus

Three kinds of missible oil

60kg emulsified soybean oil or coconut oil or corn oil and modified soybean lecithin or sucrose ester





Measured content of main nutrients

in Nutrimilk HF35 (Average of 5 measurements)

Item	Index	Item	Index
DE kcal/kg	5825.6	Ca%	0.25
ME kcal/kg	5521.9	TP%	0.47
NE kcal/kg	4267.2	CA /%	2.06
Moisture/%	4.4	Xylo-oligos/%	0.45
Emulsified fat/%	35.9	Mannan-oligo+Glycan-oligo/%	0.45
Coated emulsified fat/%	31.7	Oligomeric pectin/%	0.62
CP%	10.2	Total organic acid/% (In terms of Lactic Acid)	0.52
Antigen-free polypeptide/%	8.53	Acid Value mgKOH/g	0.13
Total soluble sugar/%	45.6	Peroxide Value mmol/kg	0.25
Maltodextrin+Maltose/%	35.9	Urease activity/U/g	Not detected
Fructose+Glucose+Sucrose+ Galactose/Lactose/%	6.5	Trypsin inhibitor TIU/mg	0.005
CF%	1.25	Total Probiotics CFU/g	$\geq 2.5 \times 10^5$





Measured content of main nutrients

in Nutrimilk HS75 (Average of 5 measurements)

Item	Index	Item	Index
DE kcal/kg	4262.5	Ca%	0.26
ME kcal/kg	4013.7	TP%	0.45
NE kcal/kg	3125.6	CA /%	1.85
Moisture/%	4.3	Xylo-oligos/%	0.85
Emulsified fat/%	6.2	Mannan-oligo+Glycan-oligo/%	0.57
Coated emulsified fat/%	5.7	Oligomeric pectin/%	0.87
CP%	10.6	Total organic acid/% (In terms of Lactic Acid)	0.56
Antigen-free polypeptide/%	8.62	Acid Value mgKOH/g	0.11
Total soluble sugar/%	75.2	Peroxide Value mmol/kg	0.23
Maltodextrin+Maltose/%	64.9	Urease activity/U/g	Not detected
Fructose+Glucose+Sucrose+ Galactose/Lactose/%	8.7	Trypsin inhibitor TIU/mg	0.01
CF%	1.28	Total Probiotics CFU/g	$\geq 2.6 \times 10^5$





Measured content

Amino acids

Item	Content/%	Item	Content/%
Lys	0.48	Gly	0.35
Met	0.13	Ala	0.35
Trp	0.12	Cys	0.12
Phe	0.41	Val	0.39
Leu	0.60	Asp	0.77
Ile	0.36	His	0.21
Thr	0.26	Arg	0.58
Ser	0.40	Tyr	0.28
Glu	1.45	Pro	0.40





Based on the experimental datas of 360 heads Nursery Pigs (test period 28 days) and 48 heads Lactating Sows (test period 23 days), the ADG & Feed Intake of Nursery Pigs and the Feed Intake of Sows & the ADG of Piglets in Test Groups compared with that in Control Group, were significantly increased after proportionally substituting low-protein Whey Powder, Soybean Oil, 46% Soybean Meal, Fermented Soybean Meal, Soy Protein Concentrate, Extruded Soybean, Glucose and Fish Meal in the original formula. On the basis of the price of Nursery Pigs: RMB 20 /kg, Piglets annual born healthy: 25 heads, Weaned Piglets selling price: RMB 400/head, Sows annual parity: 2.3, other cost of Sows: RMB 3000/head, the feed cost is obviously reduced and the economic benefit is obviously improved.

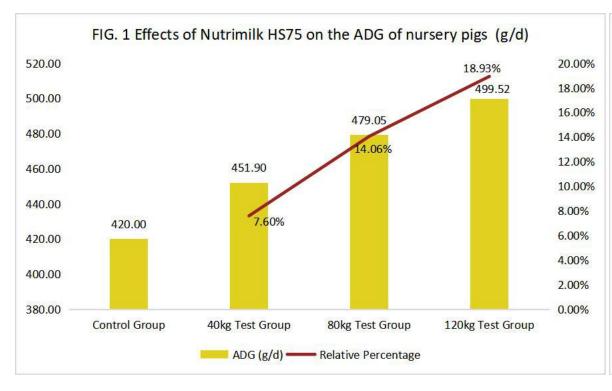
Remark:

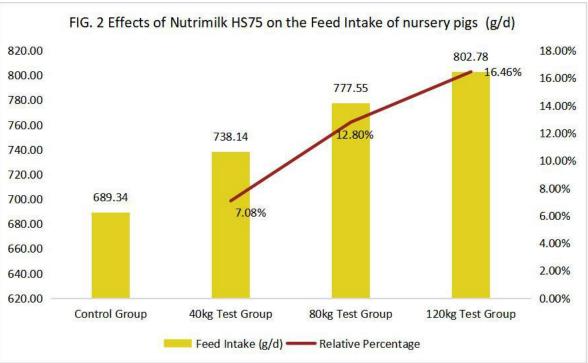
Economic Benefit for Nursery Pigs = (Nursery Pig weight gain x Nursery Pig selling price) - (Nursery Pig feed consumption x feed cost);

Economic Benefit for Sows = Piglets annual born healthy x Piglets survival rate x Weaned Piglets selling price - Feed consumption during lactation x feed cost x 2.3 - other cost of Sows.



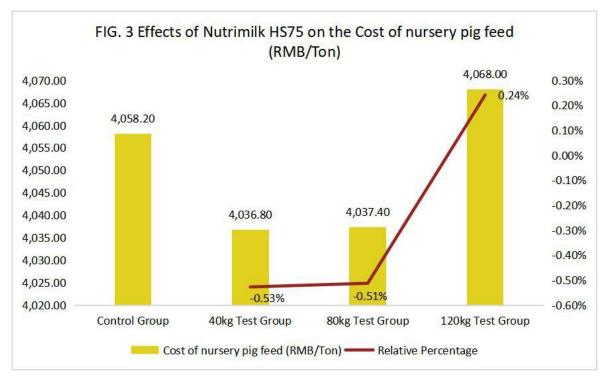


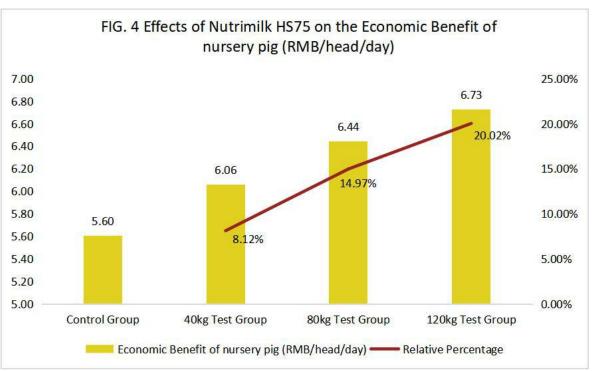














Nutrimilk Group









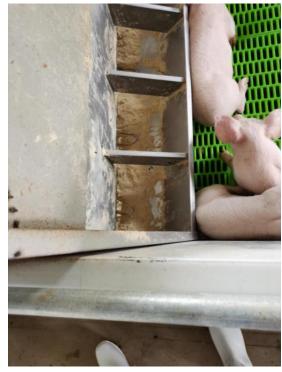


Control Group









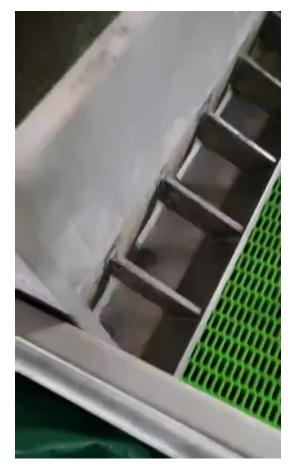


Comparison Video













No Diarrhea



Test group with Nutrimilk



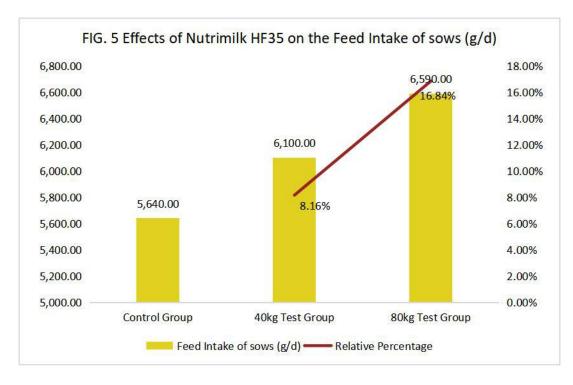
Control group

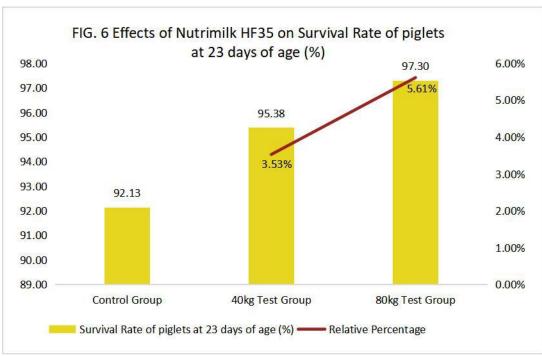


Control group



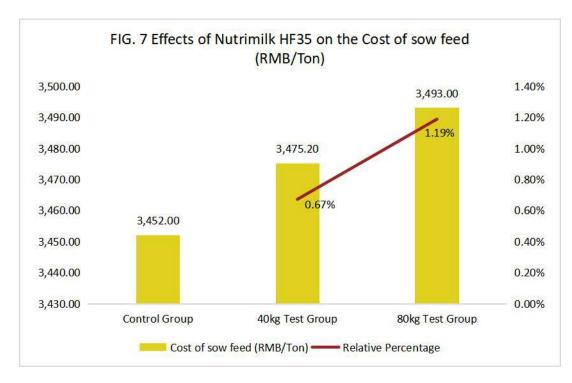


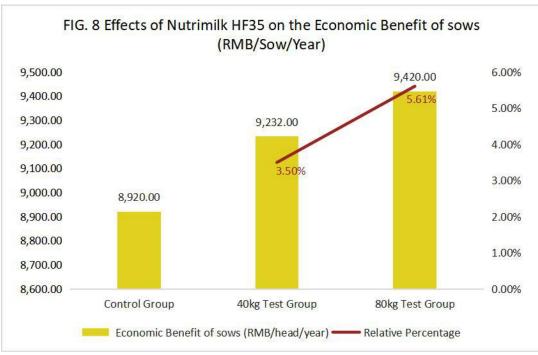












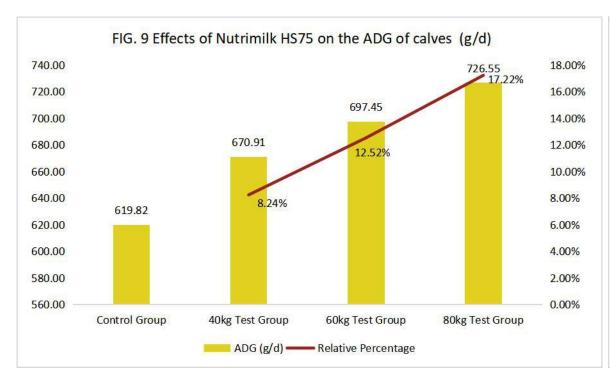


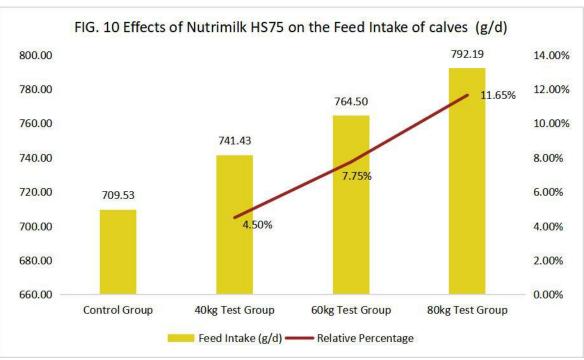


Based on the experimental datas of 100 heads Calves (test period 55 days) and 200 heads Lambs (test period 35 days), the ADG & Feed Intake of Calves and that of Lambs in Test Groups compared with that in Control Group, were significantly increased after proportionally substituting low-protein Whey Powder, Milk Powder, Soybean Oil, Soy Protein Concentrate, 46% Soybean Meal, Fermented Soybean Meal, Extruded Soybean, Glucose and Fish Meal in the original formula.



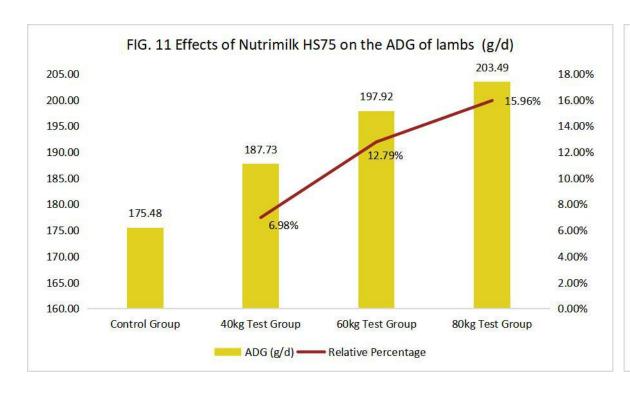


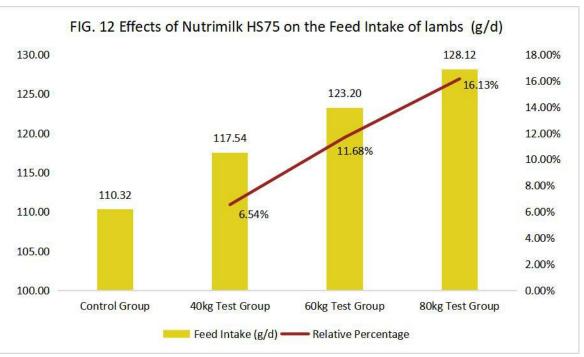


















Usage

Product Shelf life:

12 months

Packing Specifications:

40 kg/bag





Nutrimilk

Use for the preparation of formula, nursery feed tor piglets, the preparation of milk replacer, feed for lactating sows & cows and ewes, starter feed for young & laying & breeding poultry, feed for animals with fur, including dogs & cats.



Suckling Piglet: 40-80 kg/ton feed;

Lactating Sow: 20-40 kg/ton feed;

Young & Laying & Breeding Poultry: 5-10 kg/ton feed;

Weaned Piglet: 30-60 kg/ton feed;

Fish & Shrimp: 5-10 kg/ton feed;

Fur Animals & Dogs & Cats: 20-40 kg/ton feed







Cooperative Partner

COOPERATIVE PARTNER 合作伙伴





























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Presentation on exhibition



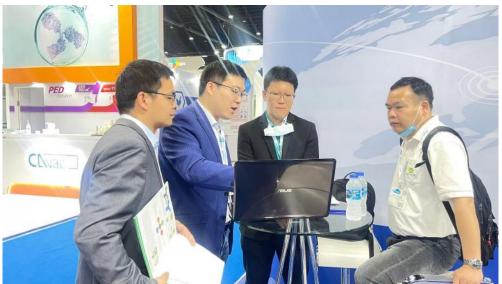
















Company Introduction

HANTECH Group is a National High-tech Enterprise, professionally engaged in R & D and production of high-grade biological feed ingredients and mainly produce biological pre-digestion products.



Established on Nov. 9, 2010



Three biological predigestion bases



About 300 existing staffs



Total assets RMB 1.269 billion







Production Bases



Lu'an North Base: Annual production of 300000 tons of Nutrimilk



Lu'an South Base



Chaohu Base





The Position





Lu' an predigestion base

located in Lu' an State-level Economictechnological Development Zone covers an area of 41 acres 12,000m² office building 9000m² science and technology building 129,000m² production workshop





Chaohu predigetion base

located in Chaohu Juchao Economic

Development Zone

covers an area of 24 acres

3000m² office building

6000m² science and technology building

85,000m² production workshop



Main Facilities







Fermentation & Emzymolysis Tanks



Strain Fermentation Tanks



Strain Expansion Culture Workshop









Storage Drying Workshop

Fermentation Workshop

Standard Laboratory





Honors



National Superior Enterprise of IPRs



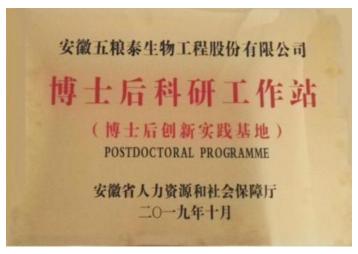
National High-tech Enterprise



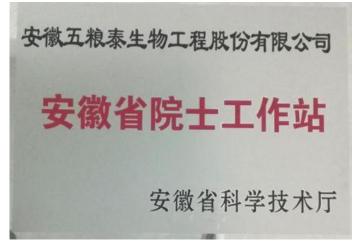
Anhui Provincial Patent Gold Award



Anhui Province Enterprise Technology Center



Post-Doctoral Research Center



Academician Workstation (2016-2019)





程茂基



Chairman Prof. Maoji Cheng

Chairman, Cheif engineer, Doctor, Doctoral graduate tutor

Talent of National "Ten Thousand Project"

Leading talent in scientific and technological innovation and entrepreneurship of "Innovative Talents Promotion Program"

Innovation and Entrepreneurship leading talent of Anhui Provincial "Special Support Plan"

Served as Deputy Director of Science and Technology Division and Deputy Dean of College of Animal Science and Technology of Anhui Agricultural University

Served as Project Minister, Chief Engineer and Deputy General Manager of **BBCA Biochemistry**

Served as Deputy Director of National Fermentation Technology Engineering Research Center of BBCA Group





Our Service







High precision facilities of manufacturing and testing

Top class R&D team and Product, formula, breeding tech training

Quick response service team



Welcome to Join Us!



Thank you

2024.9

