Функциональные белковые ингредиенты Vinasse, YeaNucleo

Технические характеристики

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Vinasse

Vinasse is a special liquid feed additive rich in protein, vitamins and minerals that normalizes the digestive process and promotes the growth of farm animals.

Vinasse is a concentrated liquid feed with high nutritional value produced by yeast fermentation.

Symbol Description

- Optimize daily rations to improve nutritional value
- Prevent digestive system diseases
- Normalize rumen digestion process
- Balance (save) protein, sugar and dry matter content in daily rations
- Stimulate and increase feed intake
- Reduce daily ration costs

Strengths

- No worse than hay and silage in terms of dry matter content
- Crude protein content higher than corn silage, not inferior to clover silage
- Same crude protein content as forage grains and brewer's grains
- Starch-free unlike that of the grains
- Three times the sugar content of forage grains (barley, triticale, wheat) and grains
- Sugar content higher than oil meal and oil cake (sunflflower, rapeseed and soybean) Vitamins A, D and B higher than in hay and silage. The content of these components is not inferior to that of grain feed
- Delicious and being conducive to the increase of feed intake
- Liquid feed with low energy consumption is easy to digest and absorb
- The additive is conducive to the prevention of ruminal acidosis and concomitant acidosis
- It is the nutritional foundation necessary for energy supplementation for newborn calves and dairy cows
- Stimulates salivation (natural buffer)

YeaNucleo

Yeast Nucleotides for Gut Health and Growth Promotion

Description

YeaNucleo is a concentrated nucleotides or its precursor product derived from Saccharomyces cerevisiae. It can supplement the deficiency of nucleotide synthesis in animals during stress or rapid growth. Also, it can strengthen palatability, improve intestinal health, promote development, immunity and growth.

Efficacy

Improve growth performance

Nucleotides can be used as the second messenger protein kinase of hormones, enhance the metabolic enzyme activity of the body, induce the synthesis of growth hormone and related enzymes, and then promote the synthesis of protein in the body and increase the body weight.

Improve intestine development and gut health

Nucleotides promote the growth and development of the gastrointestinal tract and increase the surface area of the gastrointestinal tract and the villi length of the gastrointestinal

tract, and improve the activity of gut-related enzymes in the pericyte cell layer of the gastrointestinal villi, affect the type and abundance of the gut microbes.

Improve immunity, enhance disease resistance

When the animal body produces immune stress, the body's endogenous nucleotide synthesis cannot meet the requirements of the immune cells. Nucleotide supplementation in the feed can enhance the non-specific and specific immunity of the body by increasing the number of macrophages, lymphocyte activity, and immunoglobulin production. In addition, by adding nucleotides, the resistance of fish to various pathogens such as bacterial pathogens, toxin-filtering pathogens and parasitic pathogens can be enhanced.

Application Trails

Improve feed intake and growth performance

Group, mg/kg	Initial BW, g	Final BW, g	SGR, %/d	FCR	Survival rate,%
0	1.02±0.01	6.48±0.31	3.77±0.08	1.21±0.05	96.67±3.33
100	1.02±0.01	6.45±0.34	3.77±0.08	1.20±0.03	95.56±3.85
200	1.01±0.01	6.50±0.11	3.79±0.04	1.19±0.04	95.56±3.85
400	1.01±0.01	6.50±0.26	3.80±0.10	1.17±0.01	97.78±3.85
600	1.01±0.02	6.60±0.18	3.83±0.09	1.15±0.04	97.78±1.93
800	1.01±0.05	6.58±0.24	3.81±0.06	1.20±0.06	94.55±4.95

Table 1 Effects of YeaNucleo on growth performance of juvenile Litopenaeus vannamei

Note: Animal: 720 shrimp were randomly divided into 6 groups with 3 replicates in each group, 40 prawns in each replicate. Experiment period last 7 weeks.

The data shoulder with different lowercase letters indicated significant difference (P<0.05).

Group, mg/kg	Initial BW, g	Final BW, g	SGR, %/d	FCR	Survival rate,%
0	6.02±0.01	19.22±0.37^{a}	1.93±0.04^{a}	1.19±0.04^{bc}	96.46±1.83
75	6.00±0.00	19.23±0.41^{a}	1.94±0.04^{a}	1.18±0.03^{bc}	98.46±0.94
150	6.01±0.02	19.50±0.38^{ab}	1.96±0.03^{a}	1.22±0.02^{c}	96.26±1.22
225	6.01±0.01	19.73±0.07^{ab}	1.98±0.01^{a}	1.11±0.01^{ab}	97.24±0.93
300	6.00±0.00	20.91±0.22^{c}	2.08±0.02^{b}	1.06±0.03^{a}	97.90±1.36
450	6.00±0.00	20.17±0.26^{bc}	2.02±0.02^{ab}	1.15±0.03^{abc}	92.62±2.63
1500	6.00±0.00	20.17±0.42^{abc}	2.02±0.04^{ab}	1.21±0.03^{bc}	99.68±0.00

Table 2 Effects of YeaNucleo on growth performance of juvenile turbot (Scophthalmus maximus L.)

Note: Animal: 1680 juvenile turbot were randomly divided into 7 groups with 8 replicates in each group, 30 in each replicate. Experiment period last 60 days.

The data shoulder with different lowercase letters indicated significant difference (P<0.05).

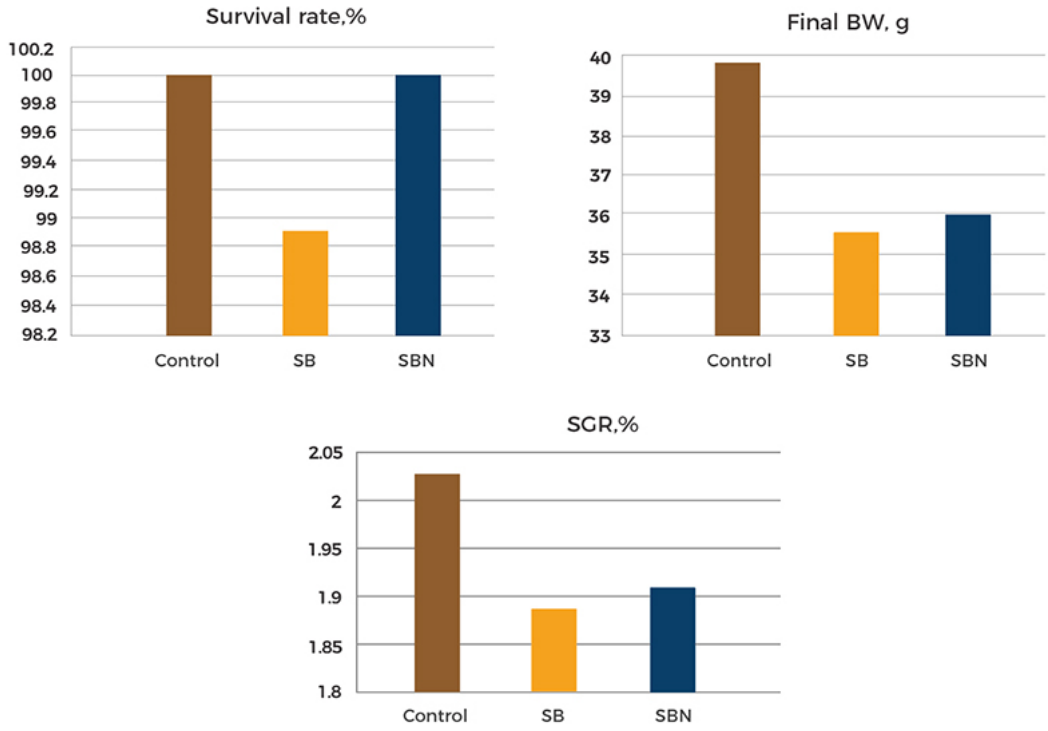


Figure 1 Effects of YeaNucleo on growth performance of juvenile turbot

(*Scophthalmus maximus L.*) in low fish meal diets.

Note: Animal: 270 juvenile turbot (Initial BW 9.46±0.01g) were randomly divided into 3 groups with 3 replicates in each group, 30 in each replicate. Experiment period last 10 weeks.

Control: diet with 30% fish meal and 12 soybean meal;

SB: diet with 20% fish meal and 20 soybean meal;

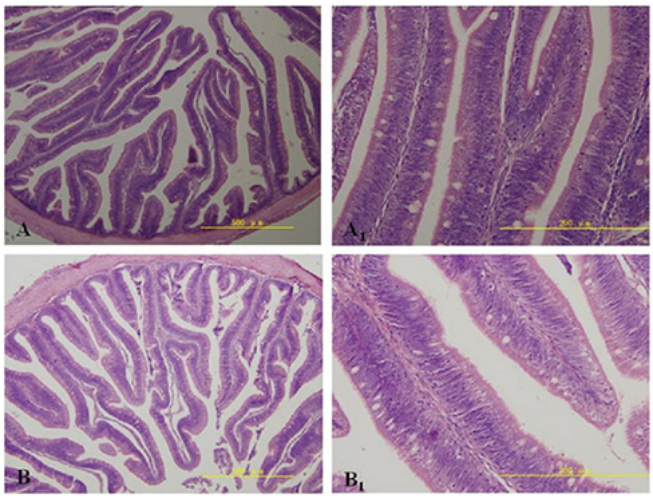
SBN: SB+300mg/kg nucleotides.

Improve intestine development

Group, mg/kg	Fold height, μm	Enterocyte height, μm	Microvillus height, μm
0	576.1±10.0^{a}	43.1±1.0^{a}	2.6±0.1^{a}
75	563.6±20.2^{a}	47.0±0.5^{ab}	3.6±0.1^{b}
150	560.7±17.7^{a}	52.6±0.5^{c}	4.1±0.3^{ab}
225	600.6±34.7^{a}	51.6±1.8^{bc}	4.1±0.2^{ab}
300	734.1±17.1^{b}	60.0±3.3^{d}	4.9±0.2^{d}
450	739.1±23.7^{b}	55.3±1.8^{cd}	4.4±0.1^{cd}
1500	704.7±28.4^{b}	53.3±1.6^{c}	4.2±0.2^{c}

Table 3 Effects of YeaNucleo on distal-intestine development of juvenile turbot

(*Scophthalmus maximus L.*)



Note: Animal: 1680 juvenile turbot were randomly divided into 7 groups with 8 replicates in each group, 30 in each replicate. Experiment period last 60 days.

The data shoulder with different lowercase letters indicated significant difference (P<0.05).

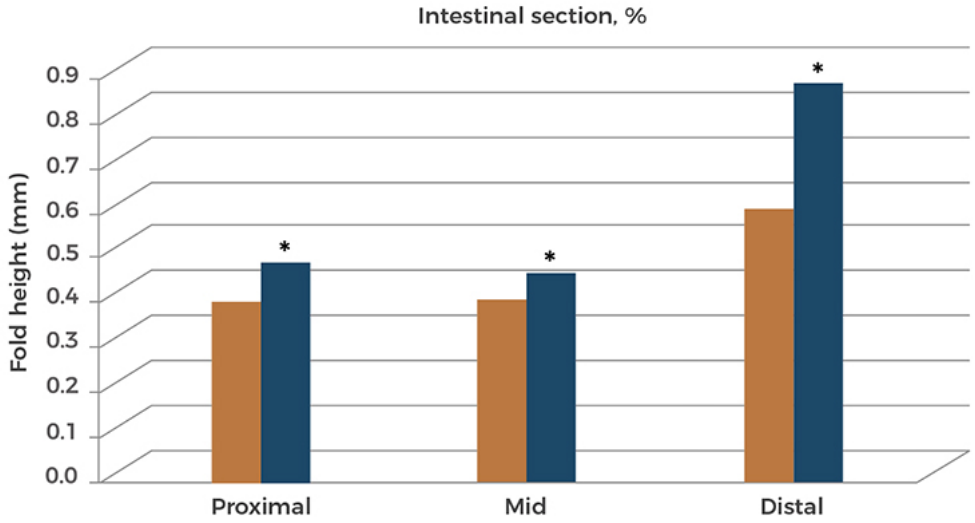


Figure 2 Intestinal fold heights in different regions of the intestinal tract of salmon

fed the control or YeaNucleo

Note: Animal: 300 similar-sized (mean initial weight 205 g) Atlantic salmon, were randomly allocated to 6×1 m tanks with 50 fish per tank (2×3 replicates) for 10 weeks. Nucleotide diet

group extra added 300mg/kg nucleotides compared with control diet.

The"*" indicated significant difference (P<0.05).

Enhance immunity and antioxidant capacity

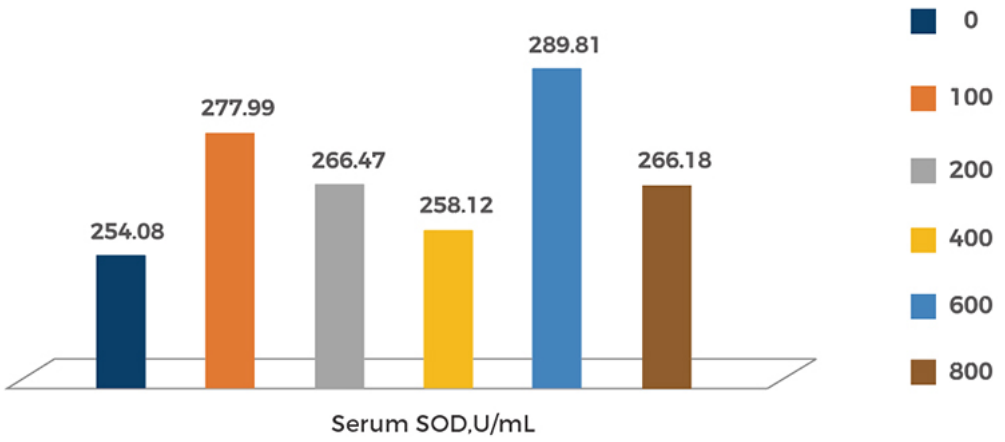
Item	Control	Nucleotides Group
SOD	54.14±3.08[a]	61.63±5.36[b]
CAT	38.95±0.83[a]	41.65±2.73[b]
T-AOC	1.99±0.45[a]	3.08±0.77[b]
Hydroxy free radical	129.11±0.78	128.69±0.62
Lysozyme	2.56±0.33[a]	2.98±0.48[b]

Table 4 Effects of YeaNucleo on Serum immunity and antioxidant of

Lateolabrax japonicas in low fish meal diet

Note: Animal: 160 Lateolabrax japonicas were randomly divided into 2 groups with 4 replicates in each group, 20 in each replicate. Experiment period last 56 days. Nucleotides Group extra added 400mg/kg mix nucleotides.

The data shoulder with different lowercase letters indicated significant difference (P<0.05).



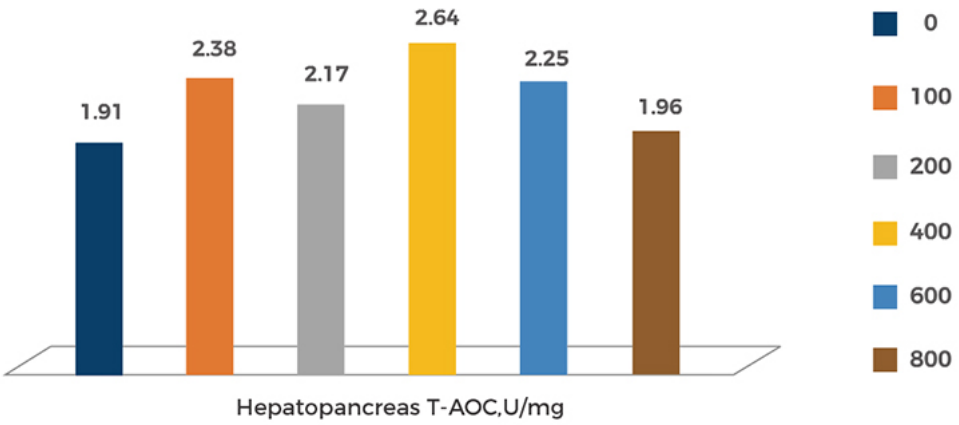


Figure3 Effects of YeaNucleo on antioxidant of juvenile Litopenaeus vannamei

Note: Animal: 720 shrimp were randomly divided into 6 groups with 3 replicates in each group, 40 prawns in each replicate. Experiment period last 7 weeks.

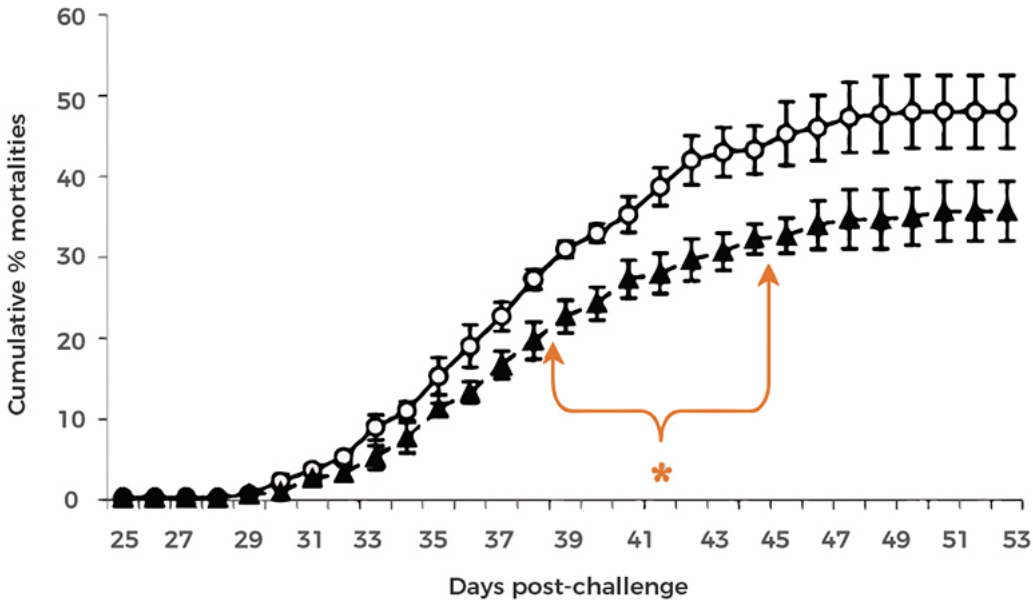


Figure 4 Cumulative mortalities due to infectious salmon anaemia (ISA) virus in groups of Atlantic salmon fed prior to challenge-exposure the control (roundness) or nucleotide (triangle) diet.

Note: Animal: 600 similar-sized (53~55 g) Atlantic salmon, were randomly allocated to 6 m tanks with 100 fish per tank (2×3 replicates) for 53d, and 60 similarly sized fish were injected intraperitoneally Ip with ISA virus. Nucleotide diet group extra added 300mg/kg nucleotides compared with control diet. The “*” indicated significant difference ($P<0.05$).

Dosage

300-800 g/ton of feed

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