



ZHEJIANG NHU COMPANY LTD.

Add: No.418 Xinchang Dadao West Road,Qixing Street,
Xinchang County,Zhejiang Province,China

 Marketing@chnu.com

 [Http://www.chnu.com](http://www.chnu.com)

 ZHEJIANG NHU COMPANY LTD.

 ZHEJIANG NHU COMPANY LTD.

 ZHEJIANG NHU COMPANY LTD.

ANIMAL NUTRITION

浙江新和成股份有限公司
ZHEJIANG NHU COMPANY LTD.

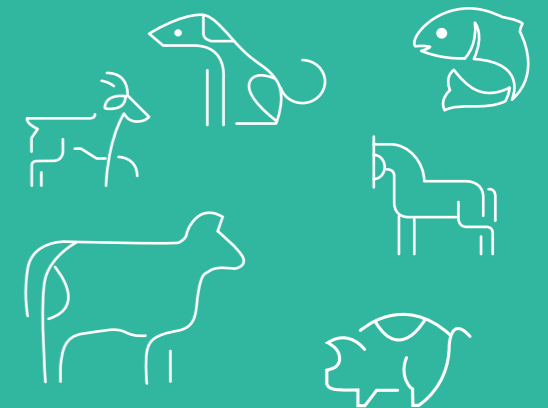
Content /

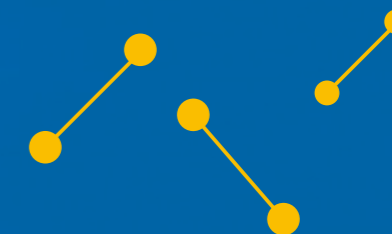
ZHEJIANG NHU COMPANY LTD.

/ 01

Vitamin E series	/	03
Vitamin A series	/	04
Vitamin AD ₃ series	/	05
Vitamin D ₃ series	/	06
Vitamin H (Biotin) series	/	07
Vitamin C series	/	08
D - Calcium Pantothenate	/	09
Vitamin B ₆ series	/	10
Vitamin B ₁₂ series	/	11
L-Tryptophan	/	12
Taurine	/	13
DL - Methionine	/	14
Methionine Hydroxy Analog (MHA)	/	15

Rumen-Protected Methionine	/	17
Canthaxanthin series	/	19
Apo-ester series	/	20
β - Carotene series	/	21
Astaxanthin series	/	22





ZHEJIANG NHU COMPANY LTD.

Founded in 1999, Zhejiang NHU Co., Ltd. was listed on the Shenzhen Stock Exchange in 2004 as the first stock of the SME Board (Stock Code: 002001). The company boasts total assets of CNY 42.9 billion as of 2024 and operates four modern production bases in Xinchang, Shangyu, Weifang, Suihua and Tianjin.

Over the years, NHU has adhered to the mission of "Exploring Chemistry, Improving Life", focused on fine chemicals, and upheld the concept of "Innovation-Driven Development and Growth In Market Competition". Today, in the fields of nutrition, Aroma Chemicals, APIs, and New Materials, NHU delivers solutions to customers in over 100 countries and regions across such sectors as animal nutrition, human nutrition, medicine, life and health, environmental protection, and engineering plastics. It continuously enhances the quality of human life with high-quality, healthy and green products, while creating sustainable value for stakeholders.

Over the years, NHU has upheld the philosophy of "Creating Wealth, Employees Success, and Benefiting Society", fulfilled its social responsibility as a corporate citizen, and has consistently ranked among the top taxpayers in Shaoxing for many consecutive years. In the 21 years since its listing, cumulative dividends have totaled CNY 16.11 billion. The company has also lived up to the responsibility of "Benefiting Society" through practical actions, such as aiding the poor and needy, supporting students, and donating to vulnerable groups.

Today's NHU has forged close cooperation with prestigious universities, scientific research institutes and leading enterprises at home and abroad. It has grown into a customer-trusted and widely recognized brand, a world-renowned vitamin supplier, a national large-scale flavors & fragrances manufacturer, and a company listed among the Top 100 Pharmaceutical Enterprises and Top 100 Listed Companies in China. It is steadily advancing toward its vision of "China NHU, Global NHU".



Vitamin E series

Vitamin E, as a fat-soluble vitamin, is involved in various number of physiological functions including antioxidant, immune functions and reproduction.

Product Name	Content	Certificates	Applications
Vitamin E 50%	≧ 500 IU/g	FAMI-QS、 Halal	Mash feed, Pelleted feed, Expanded feed, Extruded feed
Vitamin E 50% CWS	≧ 500 IU/g	FAMI-QS、 Halal	Liquid feed, Drinking water

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 36 months since the date of production.

Remarks: CWS: Cold Water Soluble



Vitamin A series

Vitamin A, as a fat-soluble vitamin, is involved in various physiological functions including growth, development, immune functions and vision.

Product Name	Content	Certificates	Applications
Vitamin A Acetate 1000	1,000,000 IU/G	FAMI-QS	Mash feed, Pelleted feed, Expanded feed, Extruded feed
Vitamin A Acetate 650	650,000 IU/G	FAMI-QS	
Vitamin A Acetate 500	500,000 IU/G	FAMI-QS	
Vitamin A Acetate 500 CWS GF	500,000 IU/G	FAMI-QS、 Halal	Liquid feed, Drinking water.
Vitamin A Acetate 1000 (Ethoxyquin free)	1,000,000 IU/G	FAMI-QS	Mash feed, Pelleted feed, Expanded feed, Extruded feed
Vitamin A Acetate 500 (Ethoxyquin free)	500,000 IU/G	FAMI-QS	

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 15 months since the date of production.

Vitamin AD₃ series

Vitamin AD₃ is used in animal feed to maintain the normal function of the epithelial cells and structural integrity, maintain normal visual function and reproductive performance, and enhance immune function, promote the absorption of calcium, phosphorus element.

Product Name	Content	Certificates	Applications
Vitamin AD3 1000/200	Vitamin A Acetate ≥1,000,000 IU/G Vitamin D3≥200,000 IU/G	FAMI-QS	Mash feed, Pelleted feed, Expanded feed, Extruded feed
Vitamin AD3 500/100	Vitamin A Acetate ≥500,000 IU/G Vitamin D3≥100,000 IU/G	FAMI-QS	
Vitamin AD3 1000/200 (Ethoxyquin free)	Vitamin A Acetate ≥1,000,000 IU/G Vitamin D3≥200,000 IU/G	FAMI-QS	
Vitamin AD3 500/100 (Ethoxyquin free)	Vitamin A Acetate ≥500,000 IU/G Vitamin D3≥100,000 IU/G	FAMI-QS	
Vitamin AD3 320/32 (Ethoxyquin free)	Vitamin A Acetate ≥320,000 IU/G Vitamin D3≥32,000 IU/G	FAMI-QS	
Vitamin AD3 600/100 (Ethoxyquin free)	Vitamin A Acetate ≥600,000 IU/G Vitamin D3≥100,000 IU/G	FAMI-QS	

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 15 months since the date of production.



Vitamin D₃ series

Vitamin D₃ is a fat-soluble vitamin that plays important roles in regulating the immune system, promoting bone health and calcium balance, and supporting respiratory as well as cardiovascular health. Its supplementation helps to improve muscle strength and suppress parathyroid hormone, which keeps calcium in the bones, increases bone density, and reduces the risk of falls and fractures.

Product Name	Content	Certificates	Applications
Vitamin D ₃ 500	500,000 IU/G	FAMI-QS	Mash feed, Pelleted feed, Expanded feed, Extruded feed
Vitamin D ₃ 500 GF	500,000 IU/G	FAMI-QS、Halal	
Vitamin D ₃ 500 CWS GF	500,000 IU/G	FAMI-QS、Halal	Drinking water, Liquid feed

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 24 months since the date of production.

Remarks: CWS: Cold Water Soluble GF: Gelatin Free





Vitamin H (Biotin) series

Biotin, a water-soluble B vitamin, acts as a coenzyme in the metabolism of proteins, fats, and carbohydrates. Used in animal feed, not only helps to promote radiant skin, strong nails and heathy hair, but also aids in the conversion of daily food intake into natural energy.

Product Name	Content	Certificates	Applications
D-Biotin 2%	≥20 mg/g	FAMI - QS, Halal	Mash feed, Pelleted feed, Expanded feed, Extruded feed
D-Biotin 98%	≥980 mg/g		

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 24 months since the date of production.

Vitamin C series

Vitamin C, also known as ascorbic acid, is indispensable during the growth and reproduction of animals. It can maintain normal blood-lipid metabolism, cardiac function, central nervous function, and haematopoietic function, and promote the synthesis of various hormones in organisms.

Functions:

1. Promote the growth of aquatic animals and the formation of their bones.
2. Increase the survival rate of aquatic animals.
3. Enhance the conversion rate of feed.
4. Strengthen the abilities of anti-virus and anti-stress.

Product name	Content	Certificates	Applications	Shelf life
Ascorbic Acid	99%	ISO, FAMI - QS, HALAL	Drinking water, Liquid feed, Mash feed	48 months
Coated Ascorbic Acid	97%	ISO, FAMI - QS, HALAL	Drinking water, Liquid feed, Mash feed	24 months
L-Ascorbate-2-phosphate	35%	ISO, FAMI - QS, HALAL	Mash feed, Pelleted feed, Extruded feed	24 months

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

D - Calcium Pantothenate

NHU's Natural Fermented D - Calcium Pantothenate, a water - soluble vitamin also known as Vitamin B5. a coenzyme A element, playing a key role in coordinating protein, carbohydrate, and fat metabolism. It offers various benefits, including protecting skin and mucous membranes, enhancing hair (or feather) color, preventing diseases, and supporting overall animal health. Furthermore, it aids in digestion, promotes growth, improves meat quality, and enhances reproductive performance.

Advantages:

- **Pioneering Fermentation Process:** Derived from microbial fermentation, equivalent to natural sourcing. The process is efficient, the technology is mature, and commercial production has been successfully achieved.
- **Environment-friendly Production:** Requires less water and energy compared to chemical synthesis. Utilizes renewable resources and avoids harmful chemicals.
- **Exceptional Quality:** Stable in nature and easy to mix, enhancing the overall quality of feed. High utilization rate, relatively high biological efficacy, and minimal emissions. Certified safe by authoritative third - parties.

Product name	Content	Certificates	Applications	Shelf life
D - Calcium Pantothenate	98%	ISO, FAMI - QS, HALAL	liquid feed,mash feed,pelleted feed	24 months

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 24 months since the date of production.



Vitamin B₆ series

Vitamin B₆, also known as pyridoxine, in the body in the form of phosphate ester, is a water-soluble vitamin. Vitamin B₆ is involved in metabolism in animals to prevent various nerve and skin diseases.

Advantages:

- **Environmental protection:**
Compared to conventional domestic vitamin B6 production methods, our innovative technology achieves dual environmental benefits: *Reduces annual waste salt discharge by 6,000 tons*
Lowers CO₂ emissions by 14,000 tons annually (equivalent to the carbon sequestration of approximately 778,000 mature trees)
- **Cost Efficiency :**
NHU's breakthrough process eliminates reliance on phosphorus oxychloride, effectively insulating production costs from volatile yellow phosphorus market prices.
- **Quality Consistency:**
While traditional methods require benzene solvents - which leave unavoidable trace residues and pose health/environmental risks - our redesigned process utilizes safer alternative solvents. This advancement ensures: *Elimination of benzene-related contamination risks*
Reduced ecological and human health impacts *Enhanced product purity and stability*

Product name	Content	Applications
Vitamin B ₆ pure	> 99.0%	Mash feed, Pelleted feed, Expanded feed, Extruded feed

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 24 months since the date of production.





Vitamin B₁₂ series

Vitamin B₁₂ is a water-soluble vitamin. Vitamin B₁₂ is the only vitamin that requires the help of an intestinal secretion (endogenous factor) to be absorbed, and is involved in the production of bone marrow red blood cells to prevent pernicious anemia and nerve damage in the brain.

Advantages:

- **Leading technology:** fermentation technology is the best technology in the industry.
- **Environmental protection:** The extraction process of NHU is more energy saving and environmental protection.
- **Stable supply:** using high-quality raw materials from the origin of domestic corn, the production is continuous and stable, and the supply capacity is guaranteed.

Product name	Content	Applications
Vitamin B ₁₂ 1%(Starch)	90%~130% (HPLC)	Mash feed, Pelleted feed, Expanded feed, Extruded feed
Vitamin B ₁₂ 1%(calcium carbonate)		
Vitamin B ₁₂ 1%(Starch)	≥1.0% (UV)	

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 24 months since the date of production.

L-Tryptophan

L-Tryptophan, also known as β-indolylalanine, is an important amino-acid that plays a crucial role in animal physiological functions. It is produced using innovative fermentation processes. Adding tryptophan to animal feed can enhance the nutritional value of the feed, promote the growth and development of animals, and improve their production performance.

Features:

- vital for protein synthesis as an essential amino-acid, promoting animal growth and improving feed protein utilization.
- regulate appetite by increasing ghrelin expression, ensuring sufficient nutrient intake, especially for young or stressed animals.
- enhances animal reproductive performance, raising conception and litter sizes.
- participates in immune-active substance synthesis, boosting immunity.
- converted into neurotransmitters like serotonin, regulating emotions and relieving stress, thus helping animals stay in good condition.

Product name	Content	Certificates	Applications	Shelf life
L-Tryptophan Granulated	40%	ISO, HALAL	Mash feed, Pelleted feed, Expanded feed, Extruded feed	24 months

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 24 months since the date of production.

Taurine

Taurine has been widely used in food, medicine, and other fields. In nature, most animals cannot synthesize taurine, or their synthetic ability is very weak, so feed intake is one of the most direct ways to supplement taurine. AAFCO and the European Union have classified taurine as a necessary additive in cat food. In addition, according to our studies, taurine intake by other animals is also recommended for some specific benefits.

Functions:

- Improving animal production performance and feed utilization efficiency
- Enhancing animal health and disease resistance
- Improving the quality of meat
- Reducing the proportion of fish meal in aquatic feed

Product name	Content	Certificates	Application
Taurine	≥99%	ISO, FAMI-QS, HALAL	Drinking water, Liquid feed, Mash feed, Pelleted feed, Expanded feed, Extruded feed

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 36 months since the date of production.



DL - Methionine

SANDIMET® ensures the adequate supply of sulfur amino acids, particularly the essential amino acid - methionine. SANDIMET® significantly improves animal performance and increases the profits.

Recommend:

SANDIMET® can be introduced into compound feed by taking into account actual content of methionine in feeds. Recommended rate to include in feed: 0.5 - 3kg/t.

Product name	Content	Certificates	Applications
DL - METHIONINE 99% FEED GRADE	≥99%	ISO, FAMI - QS, HALAL, FSC	Mash feed, Pelleted feed, Expanded feed, Extruded feed

STORAGE CONDITIONS:

It should be stored in a ventilated, dark, and contamination-free place. Avoid storage with toxic or hazardous substances.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 36 months since the date of production.





Methionine Hydroxy Analog (MHA)

SANDIMET[®] MHA is a hydroxy methionine analog with a content of 88%. It comes in diverse packaging options, is easy to store, convenient to use, and can reduce dust during processing.

Product name	Content	Certificates	Application
Methionine Hydroxy Analog	88%	FSC, FAMI-QS	Drinking water, Liquid feed, Mash feed, Pelleted feed, Expanded feed, Extruded feed

STORAGE CONDITIONS:

It should be stored in a shade, dry place and keep container tightly closed; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 60 months since the date of production.



Rumen-Protected Methionine

More Scientific, More Efficient, More Profitable

SANDIRUMET™, the effective, concentrated, coated methionine source for dairy cows, is a product designed to achieve the correct amino-acid balance in the dairy ration. It uses ethyl cellulose as a coating material to simulate the natural digestion process and ensure that methionine continues to enter the small intestine and then is continuously and stably utilized by the liver. The natural digestion process reduces the waste of methionine caused by degradation in the liver. Based on repeated validation tests, **SANDIRUMET™** can provide more metabolizable methionine than most ruminant methionine (**600 - 650 g/Kg**).

Product Advantages :

- High DL-methionine content.
- Good rumen bypass rate.
- Efficient small intestinal release.
- Simulates natural digestion, aligned with amino acid metabolic dynamics.
- Superior processing stability—high mixing stability in concentrates and TMR.
- Strict quality control—Quality key point control and digitalized management.

Product Functions:

- Enhances milk yield and quality.
- Improves reproductive performance.
- Supports postpartum health.
- Supports amino acid balance.
- Reduces environmental pollution.

Product name	Content	Main Applications
Rumen-Protected Methionine	85%	Concentrated feed, total mixed ration (TMR)

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 36 months since the date of production.





Canthaxanthin series

ESSENTION™ RED

Canthaxanthin is found in algae, bacteria, crustaceans, etc. Canthaxanthin is one of the authorised carotenoids for use in poultry feed and aquatic feed as a coloring agent.

Functions:

- Effectively improves the color intensity of farmed species.
- Ensures excellent stability due to the advanced technology of double-layer embedment.
- Enables easier mixing in feed.

Product Name	Content	Certificates	Applications
Canthaxanthin 10% cws	≥10%	FAMI-QS	Mash feed, Pelleted feed, Expanded feed, Extruded feed

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place. After opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original package has a shelf life of 36 months since the date of production.

Apo-ester series

ESSENTION™ YELLOW

β-apo-8'-carotenoic acid ethyl ester is a kind of yellow carotenoid naturally existing in some plants. It is mainly used to improve the color intensity of egg yolk, poultry skin, shank and fat, in combination with canthaxanthin.

Functions:

- Improve the deposition of active ingredients and make the farmed species present stable and ideal color.
- A source of vitamin A.
- Superior storage and processing stability.

Product Name	Content	Certificates	Applications
Apo-ester 10%	≥10%	FAMI-QS	Mash feed, Pelleted feed, Expanded feed, Extruded feed

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place. After opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original package has a shelf life of 36 months since the date of production.



β-Carotene series

ESSENTION™ CAROTENE

Beta-carotene is the most abundant carotenoid in mammalian tissues, providing coloring, antioxidant properties, and serving as a source of vitamin A. Beta-carotene can improve animal reproductive performance and immunity.

Functions:

- Improve animal immunity.
- Enhance the survival rate of breeding animals.
- Improve the production performance, especially for female animals breeding performance.

Product Name	Content	Certificates	Applications
Beta carotene 10%	≧ 10%	FAMI-QS	Mash feed, Pelleted feed, Expanded feed, Extruded feed

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 24 months since the date of production.

Astaxanthin series

ESSENTION™ PINK

Astaxanthin is commonly found in algae, crustaceans, flamingos, fish, etc. Astaxanthin is a potent antioxidant carotenoid that has been found to be highly effective in mopping up free radicals.

Functions:

- Unique technology improves the stability and bioavailability of astaxanthin.
- Improve the color intensity of farmed species.
- Improve the growth performance and reduce the feed conversion ratio.
- Improve the hatching and survival rate of larvae.
- Improve the reproduction performance and nutritional value of live feeds.
- Improve the stress tolerance of farmed species.
- Oil Dispersion especially for vacuum coating.

Product Name	Content	Certificates	Applications
Astaxanthin 10% Toc. Stab.	≧ 10%	FAMI-QS	Mash feed, Pelleted feed, Extruded feed
Astaxanthin 5% oil dispersion	≧ 5%	FAMI-QS, Halal	Extruded feed
Astaxanthin 10% CWS Toc. Stab.	≧ 10%	FAMI-QS, Halal	Mash feed, Pelleted feed, Extruded feed

STORAGE CONDITIONS:

It should be stored in a dark, ventilated and dry place; after opening, it is suggested to be used as soon as possible.

SHELF LIFE:

Under the specified storage conditions, the original packaging has a shelf life of 36 months since the date of production.