

Exploring chemistry, Improving life.

Zhejiang NHU Co., Ltd. (abbreviated as NHU) was founded in 1999 and listed in 2004 with the stock code of 002001.

Since the inception, we have been firmly holding on to the belief of developing through innovation and thriving in competition.

Specialized in functional chemicals with an emphasis on nutritional chemicals, aroma chemicals and polymers, NHU devotes itself in the stages of R&D, production, sales, and service of the products. We offer

integrated solutions to customers across over 100 countries and regions in a wide range of domains including nutrition & health, personal and home care, transportation, environmental protection, and new energy.

Leveraging our quality, healthy, green, and low-carbon products, we are committed to improving quality of life for all and generating lasting values for stakeholders. Currently ranked among China's top 100 fine chemical companies and top 100 listed companies, NHU is doubling its effort to rise to the top of the world's functional chemical industry.



Catalogue of Human Nutrition and Health Products

NEW HARMONY UNION



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浙江新和成股份有限公司
ZHEJIANG NHU COMPANY LTD.

NHU aims to create better life for people. As a preferred supplier of raw materials for the food, beverage, dietary supplement, early life, and personal care industries, we collaborate closely with our customers to foster a healthier and more beautiful world through tailor-made solutions. Embracing the Sustainable Development Goals (SDGs) as our guiding direction and sustainability as our core value, we actively engage with stakeholders to advance the sustainable development of people, society, and the environment.

Institute of Human Nutrition

The Institute of Human Nutrition provides solutions to its customers through its R&D and application services.

1 R&D Services:

Providing customized dosage forms of various raw materials, including vitamin A, vitamin D3, vitamin E, vitamin C, coenzyme Q10, biotin, β -carotene, B vitamins, and more.

2 Application Services:

Addressing potential challenges that customers may encounter during the application of our products by conducting research on application formulas, stability, sensory evaluation, compliance with regulations, and more.

3 Areas of research:

Dietary Supplements
Food and Beverage
Infant Formula
Nutrition Improvement
Coloration Solutions



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β-Carotene	Lycopene	Lutein	Taurine	L-Serine	L-Cystine	L-Cysteine Series	L-Leucine Series	





Role

Vitamin A has a variety of physiological functions and is essential for vision, growth, development of epithelial tissue and bone, and fetal growth and development.

EU Health Claims

- Vitamin A contributes to normal iron metabolism.
- Vitamin A contributes to the maintenance of normal mucous membranes.
- Vitamin A contributes to the maintenance of normal skin.
- Vitamin A contributes to the maintenance of normal vision.
- Vitamin A contributes to the normal function of the immune system.
- Vitamin A has a role in the process of cell specialisation.

COVITAS™

Vitamin A (Retinol)

US FDA 2018 label: 1 IU vitamin A = 0.3mcg retinol active equivalent (RAE)

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
Vitamin A Acetate 2.8 MIU/g Pure crystal, equivalent to 840mg/g of retinol	●	●	1 25		●	●	●	●		
Vitamin A Acetate 1 MIU/g Stabilized with BHT, oily solution, based on soybean oil, equivalent to 300mg/g of retinol	●	●	10	●		●	●			
Vitamin A Acetate 325 CWS/A Stabilized with tocopherol, spray granulation, cold water dispersible, based on gum acacia, 325,000 IU Vit. A/g, equivalent to 97.5mg/g of retinol	●	●	20 25		●	●	●	●		
Vitamin A Acetate 325 SD CWS/A Stabilized with tocopherol, spray dried, cold water dispersible, based on gum acacia, 325,000 IU Vit. A/g, equivalent to 97.5mg/g of retinol.	●	●	20 25		●	●	●	●		
Vitamin A Acetate 325 CWS/S Stabilized with tocopherol, spray dried, cold water dispersible, based on modified starch, 325,000 IU Vit. A/g, equivalent to 97.5mg/g of retino	●	●	20 25		●	●	●			
Vitamin A Acetate 500 DC Stabilized with BHT, spray granulation, water dispersible at 35° C-40° C, based on gelatin, 500,000 IU Vit. A/g, equivalent to 150mg/g of retinol			20 25		●	●	●			
Vitamin A Acetate 500 SD CWS/A Stabilized with tocopherol, spray dried, cold water dispersible, based on gum acacia, 500,000 IU Vit. A/g, equivalent to 150mg/g of retinol	●	●	20 25		●	●	●	●		
Vitamin A Palmitate 1.7 MIU/g Oily liquid, equivalent to 510mg/g of retinol	●	●	5 20	●		●	●	●		
Vitamin A Palmitate 1 MIU/g Stabilized with tocopherol, oily solution, based on sunflower oil, equivalent to 300mg/g of retinol	●	●	5 20	●		●	●	●		
Vitamin A Palmitate 250 SD CWS/S Stabilized with BHT, spray dried, cold water dispersible, based on modified starch, allergen free, 250,000 IU Vit. A/g, equivalent to 75mg/g of retinol	●	●	20 25		●	●	●			
Vitamin A Palmitate 250 CWS/S Stabilized with BHT, spray granulation, cold water dispersible, based on modified starch, allergen free, 250,000 IU Vit. A/g, equivalent to 75mg/g of retinol	●	●	20 25		●	●	●			
Vitamin A Palmitate 250 SD CWS/S Stabilized with tocopherol, spray dried, cold water dispersible, based on modified starch, 250,000 IU Vit. A/g, equivalent to 75mg/g of retinol	●	●	20 25		●	●	●			
Vitamin A Palmitate 250 CWS/A Stabilized with tocopherol, spray granulation, cold water dispersible, based on gum acacia, 250,000 IU Vit. A/g, equivalent to 75mg/g of retinol	●	●	20 25		●	●	●	●		
Vitamin A Palmitate 250 CWS/S Stabilized with tocopherol, spray granulation, cold water dispersible, based on modified starch, 250,000 IU Vit. A/g, equivalent to 75mg/g of retinol	●	●	20 25		●	●	●			
Vitamin A AD3 1M/0.1M IU/g Stabilized with tocopherol, oily solution, based on sunflower oil, equivalent to 300mg/g of retinol and 2.5mg/g of cholecalciferol	●	●	9	●		●	●	●		



COVITAS™
Retinol

Role

Retinol is a fat-soluble vitamin. It can adjust the metabolism of epidermis and stratum corneum and reduce seborrhea. Retinol can protect the epidermal mucosa from damages. Retinol is used in personal care product for anti-aging functions.



Product and Description	Cert.		Pack size (KG)	Form		Main application					
	Kosher	Halal		liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation	Personal care
Retinol 10% Stablized with BHT, oily solution, based on soybean oil			5	●							●
Retinol 15% Stablized with BHT, oily solution, based on medium chain triglycerides			5	●							●
Retinol 50% Stablized with BHT and BHA, oily solution, based on polysorbate-20			5	●							●
Retinyl Propionate 2.5 MIU/g Stablized with BHT, oily liquid, equivalent to 750mg/g of retinol			5 20	●							●

COVITAS™
Vitamin D₃
 (Cholecalciferol)

US FDA 2018 label:
 1 IU vitamin D₃= 0.025 mcg vitamin D₃

Role

Vitamin D aids the absorption of calcium and phosphorus and prevents rickets in children and chondromalacia in adults, as rickets is a disorder of calcium and phosphorus metabolism caused by vitamin D deficiency. Vitamin D also enhances the function of the immune system.

EU Health Claims

- Vitamin D has a role in the process of cell division.
- Vitamin D contributes to normal blood calcium levels.
- Vitamin D contributes to the maintenance of normal bones.
- Vitamin D contributes to the maintenance of normal muscle function.
- Vitamin D contributes to the maintenance of normal teeth.
- Vitamin D contributes to the normal function of the immune system.
- Vitamin D contributes to normal absorption/utilisation of calcium and phosphorus.
- Vitamin D is needed for normal growth and development of bone in children.
- Calcium and vitamin D help to reduce the loss of bone mineral in post-menopausal women.
- Low bone mineral density is a risk factor for osteoporotic bone fractures.
- Vitamin D helps to reduce the risk of falling associated with postural instability and muscle weakness. Falling is a risk factor for bone fractures among men and women 60 years of age and older.

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
Vitamin D₃ 40 MIU/g Pure crystal, 1000mg cholecalciferol/g	●	●	0.5		●	●	●	●		
Vitamin D₃ 1 MIU/g Stabilized with tocopherol, oily solution, based on sunflower oil, 25mg cholecalciferol/g	●	●	10 15	●		●	●	●		
Vitamin D₃ 1 MIU/g Stabilized with BHT, oily solution, based on corn oil, 25mg cholecalciferol/g	●	●	10 15	●		●	●			
Vitamin D₃ 100 CWS/S Stabilized with tocopherol, spray dried, cold water dispersible, based on modified starch, allergen free, 100,000 IU Vit. D ₃ /g, 2.5 mg cholecalciferol/g	●	●	20 25		●	●	●	●		
Vitamin D₃ 100 CWS/A Stabilized with tocopherol, spray granulated, cold water dispersible, based on gum acacia, 100,000 IU Vit. D ₃ /g, 2.5 mg cholecalciferol/g	●	●	20 25		●	●	●	●		
Vitamin D₃ 500 DC Stabilized with tocopherol, spray granulation, water dispersible at 35°C to 40°C, based on gelatin, 500,000 IU Vit. D ₃ /g, 12.5 mg cholecalciferol/g			20 25		●	●	●			
Vitamin D₃ 500 CWS/S Stabilized with tocopherol, spray dried, cold water dispersible, based on modified starch, allergen free, 500,000 IU Vit. D ₃ /g, 12.5 mg cholecalciferol/g	●	●	20 25		●	●	●	●		

Role

Vitamin E is a powerful antioxidant and is needed for normal growth and reproduction in animals. It plays a role in the prevention and treatment of cardiovascular diseases, tumors, diabetes and other complications, central nervous system diseases, motor system diseases and skin diseases.

EU Health Claims

Vitamin E contributes to the protection of cells from oxidative stress.

COVITAS™
Vitamin E
 (dl-α-tocopherol,
 dl-α-tocopheryl acetate)

1mg dl-α-tocopheryl acetate = 1IU = 0.67mg α-tocopherol equivalent (FAO/WHO) = 0.45mg Vitamin E (US FDA)
 1mg dl-α-tocopherol = 1.1IU = 0.74mg α-tocopherol equivalent (FAO/WHO) = 0.5mg Vitamin E (US FDA)
 1mg d-alpha-tocopheryl acetate = 1.36IU = 0.91 alpha-tocopherol equivalent (FAO/WHO) = 0.91mg Vitamin E (US FDA)
 1mg d-alpha-tocopherol = 1.49IU = 1mg alpha-tocopherol equivalent (FAO/WHO) = 1mg Vitamin E (US FDA)

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
dl-α-Tocopherol Content of all-rac-α-tocopherol acc.to USP:96.0%–102.0%	●	●	10 20 50	●		●	●	●		●
dl-α-Tocopheryl Acetate Content of all-rac-α-tocopheryl acetate acc.to USP: ≥98.0%	●	●	10 20 50 190 950	●		●	●	●		
dl-α-Tocopheryl Acetate 15% CWS/S Spray dried, cold water dispersible, clear and transparent, based on modified starch, 150 IU Vit. E/g	●	●	20 25		●	●	●			
dl-α-Tocopheryl Acetate 50% CWS/S Spray dried, cold water dispersible, based on modified starch, 500IU Vit. E/g	●	●	20 25		●		●	●		
dl-α-Tocopheryl Acetate 50% DC Spray dried, water dispersible at 35°C~40°C, based on gelatin, 500IU Vit. E/g			20 25		●	●	●			
d-α-Tocopheryl Acetate 70%/F Spray granulation, based on fish gelatin, 700 IU Vit. E/g		●	20 25		●	●	●			
dl-α-Tocopheryl Acetate 75%/F Spray granulation, based on fish gelatin, 750 IU Vit. E/g		●	20 25		●	●	●			



Role

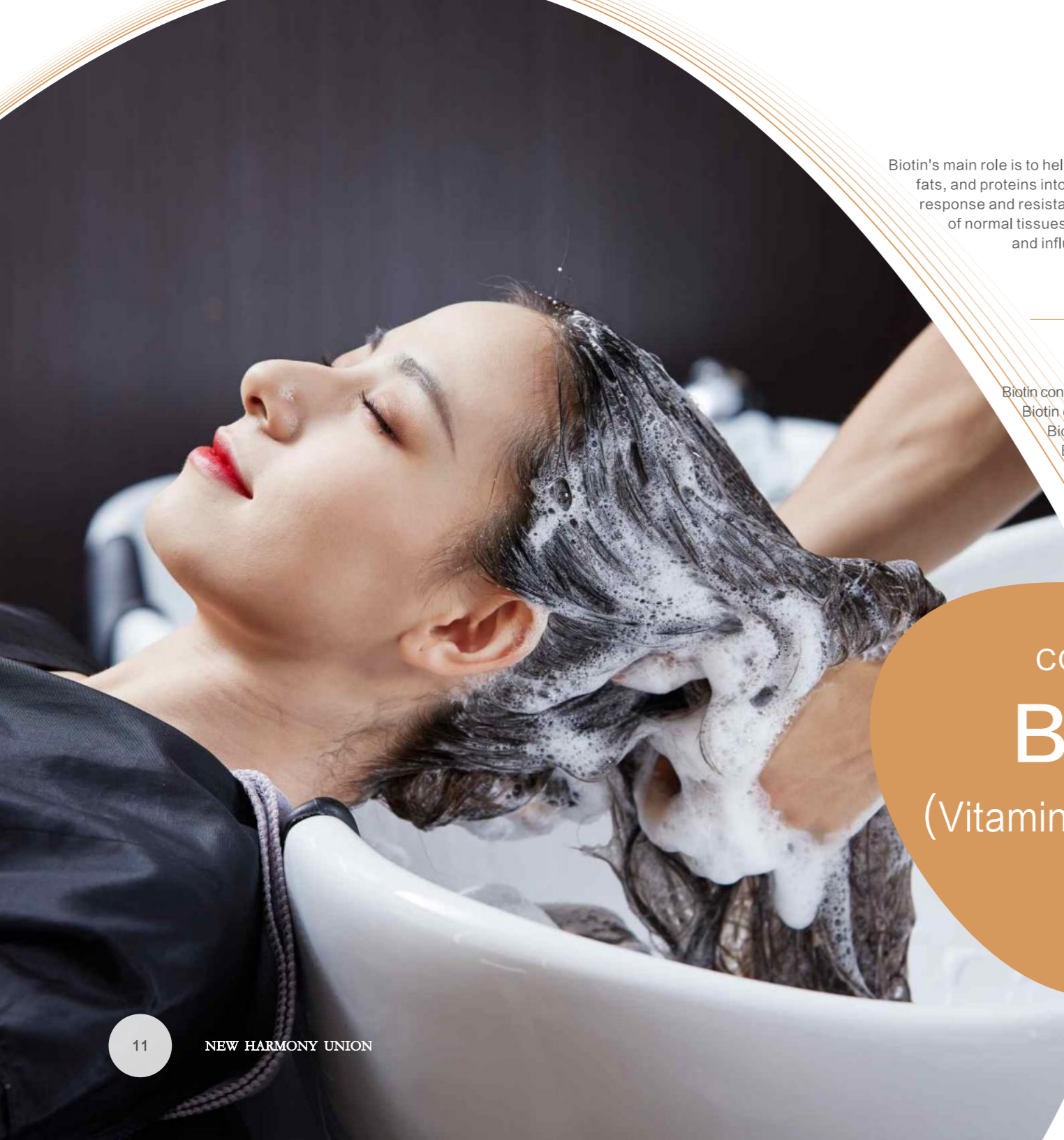
Vitamin C is an essential nutrient for higher primates and a few other organisms. In living organisms, vitamin C is an antioxidant that protects the body from the threat of free radicals, and it is also a coenzyme.

EU Health Claims

- Vitamin C contributes to normal collagen formation for the normal function of blood vessels.
- Vitamin C contributes to normal collagen formation for the normal function of bones.
- Vitamin C contributes to normal collagen formation for the normal function of cartilage.
- Vitamin C contributes to normal collagen formation for the normal function of gums.
- Vitamin C contributes to normal collagen formation for the normal function of skin.
- Vitamin C contributes to normal collagen formation for the normal function of teeth.
- Vitamin C contributes to normal energy-yielding metabolism.
- Vitamin C contributes to normal functioning of the nervous system.
- Vitamin C contributes to normal psychological function.
- Vitamin C contributes to the protection of cells from oxidative stress.
- Vitamin C contributes to the reduction of tiredness and fatigue.
- Vitamin C contributes to the regeneration of the reduced form of vitamin E.
- Vitamin C increases iron absorption.

COVITAS™ Vitamin C (Ascorbic Acid)

Product and Description	Cert.		Pack size (KG)	Form		Main application					
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation	Personal Care
VC (ascorbic acid) regular	●	●	25		●	●	●	●		●	●
VC (ascorbic acid) 100 mesh	●	●	25		●	●	●	●		●	●
Calcium ascorbate	●	●	25		●	●	●	●		●	
Granulated calcium ascorbate (97) DC	●	●	25		●	●					
Sodium ascorbate	●	●	25		●	●	●	●		●	
Sodium ascorbate (99) DC granulation	●	●	20		●	●					
Coated ascorbic acid (97) Based on ethyl cellulose	●	●	25		●	●					
Ascorbic acid (97) SF granulation Based on hydroxypropyl methylcellulose, starch-free	●	●	25		●	●					
Sodium Ascorbyl Phosphate			20		●						●



Role

Biotin's main role is to help the cells in human bodies to convert carbohydrates, fats, and proteins into energy they can use. It enhances the body's immune response and resistance to infection, stabilizes the lysosomal membranes of normal tissues, maintains the body's humoral and cellular immunity, and influences the secretion of a range of cytokines. It is also needed for healthy hair and nails and helps control diabetes.

EU Health Claims

Biotin contributes to the maintenance of normal mucous membranes.
 Biotin contributes to normal functioning of the nervous system.
 Biotin contributes to normal energy-yielding metabolism.
 Biotin contributes to normal macronutrient metabolism.
 Biotin contributes to the maintenance of normal hair.
 Biotin contributes to the maintenance of normal skin.
 Biotin contributes to normal psychological function.

COVITAS™ Biotin (Vitamin H, Vitamin B7)

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
D-biotin Pure crystal	●	●	2 10 20		●	●	●	●		
D-biotin 1% Dry mix, based on calcium hydrogen phosphate	●	●	20 25		●	●	●	●		
D-biotin 1% Stabilized with VC, spray dried, cold water dispersible, based on maltodextrin	●	●	20 25		●	●	●			
D-biotin 2% CWS/S Dry mixed, stabilized with potassium sorbate, spray dried, cold water dispersible, based on modified starch	●	●	20 25		●	●	●			
D-biotin 5% Dry mix, based on calcium hydrogen phosphate and microcrystalline cellulose	●	●	20 25		●	●	●			



COVITAS™
Vitamin B₆
 (Pyridoxine Hydrochloride)

Role

Vitamin B₆ is mostly associated with amino acid metabolism, including transamination, decarboxylation, side chain cleavage, dehydration and transsulfuration.

EU Health Claims

- Vitamin B₆ contributes to normal cysteine synthesis.
- Vitamin B₆ contributes to normal energy-yielding metabolism.
- Vitamin B₆ contributes to normal functioning of the nervous system.
- Vitamin B₆ contributes to normal homocysteine metabolism.
- Vitamin B₆ contributes to normal protein and glycogen metabolism.
- Vitamin B₆ contributes to normal psychological function.
- Vitamin B₆ contributes to normal red blood cell formation.
- Vitamin B₆ contributes to the normal function of the immune system.
- Vitamin B₆ contributes to the reduction of tiredness and fatigue.
- Vitamin B₆ contributes to the regulation of hormonal activity.

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
Vitamin B₆ (pyridoxine hydrochloride) fine granulation Pure crystal, 40 mesh >99%	●	●	25		●	●	●	●		
VitaminB₆ (pyridoxine hydrochloride) fine powder Pure crystal, 60 mesh >95%	●	●	25		●	●	●	●		
VitaminB₆ (pyridoxine hydrochloride) ultra-fine powder Pure crystal, 80 mesh >90%	●	●	25		●	●	●	●		
VitaminB₆ (pyridoxine hydrochloride) granulation Particularly suitable for tableting	●	●	25		●	●	●	●		

COVITAS™
Vitamin B₁₂
 (Cyanocobalamin,
 Methylcobalamin)

Role

Vitamin B₁₂ is a vitamin that is easily deficient in people with digestive tract diseases and is an important element indispensable for the production of red blood cells, which, if severely deficient, will lead to pernicious anaemia.

EU Health Claims

- Vitamin B₁₂ contributes to normal energy-yielding metabolism.
- Vitamin B₁₂ contributes to normal functioning of the nervous system.
- Vitamin B₁₂ contributes to normal homocysteine metabolism.
- Vitamin B₁₂ contributes to normal psychological function.
- Vitamin B₁₂ contributes to normal red blood cell formation.
- Vitamin B₁₂ contributes to the normal function of the immune system.
- Vitamin B₁₂ contributes to the reduction of tiredness and fatigue.
- Vitamin B₁₂ has a role in the process of cell division.

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
Vitamin B ₁₂ (cyanocobalamin) Pure crystal	•	•	1 5		•	•	•	•	•	
Vitamin B ₁₂ (methylcobalamin) Pure crystal	•	•	1 5		•	•	•	•	•	
Vitamin B ₁₂ (cyanocobalamin) 0.1% Based on maltodextrin, spray dried	•	•	20		•	•	•	•	•	
Vitamin B ₁₂ (cyanocobalamin) 0.1% Based on mannitol, spray dried	•	•	20		•	•	•	•	•	
Vitamin B ₁₂ (cyanocobalamin) 1% Based on maltodextrin, spray dried	•	•	20		•	•	•	•	•	
Vitamin B ₁₂ (cyanocobalamin) 1% Based on mannitol, spray dried	•	•	20		•	•	•	•	•	



Role

Coenzyme Q10 acts as a strong antioxidant by its own or in combination with vitamin B6 (pyridoxine). It inhibits the modifying effect of free radicals on the microtubule system of receptors on immune cells related to cell differentiation and activity, enhances the immune system and delays aging.

Coenzyme Q10 contributes to the provision of sufficient oxygen to the myocardium to prevent sudden heart attacks. Particularly, during myocardial hypoxia, it plays a key role.

Coenzyme Q10 accelerates the metabolism of fats, resulting in an adequate supply of energy to the limbs and brain and a high level of energy.

COVITAS™ Coenzyme Q10

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
Coenzyme Q10 Pure crystal, content: 98.0–101.0% (HPLC), compliant with EP/USP	●	●	1 10 20		●	●				
Granulated coenzyme Q10 100 mesh <10%, compliant with EP/USP, suitable for hard capsules and tablets	●	●	1 10 20		●	●				
10% Coenzyme Q10 microemulsion Includes active ingredient Coenzyme Q10 ≥ 10% compliant with EP/USP			5	●		●	●			
10% Coenzyme Q10 beadlet Includes active ingredient Coenzyme Q10 ≥ 10% , beadlet, baesd on gum Arabic			20		●	●	●			



Role

β-Carotene is an important source of vitamin A and can be converted into vitamin A in the body. It can act as an antioxidant and promote health.

β-Carotene is used as colorant in food industry, providing a range of color from yellow to red.

NuColoris™ β-Carotene

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
β-Carotene 98% Pure crystal	●	●	1 10		●				●	
β-Carotene emulsion 2% Cold water dispersible, allergen free	●	●	10 20	●		●	●		●	
β-Carotene emulsion 2% CC Cold water dispersible, clarified and transparent after dissolution, allergen free	●	●	10 20	●		●	●		●	
β-Carotene emulsion 10% Red Cold water dispersible, bright red coloring effect, allergen free	●	●		●		●	●		●	
β-Carotene oil 30% Disperse based on sunflower oil	●	●	10	●		●	●		●	
β-Carotene 0.3% CWS/S Cold water dispersible, based on modified starch, allergen free	●	●	10 20		●	●	●		●	
β-Carotene 1% CWS/S Cold water dispersible, based on modified starch, allergen free	●	●	10 20		●	●	●		●	
β-Carotene 1% CWS/A Cold water dispersible, based on acacia gum, allergen free	●	●	10 20		●	●	●		●	
Nature Carotene 1% CWS Nature source, Cold water dispersible, allergen free	●	●			●	●	●		●	
β-Carotene 10% CWS/S Cold water dispersible, based on modified starch, allergen free	●	●	10 20		●	●	●		●	
β-Carotene 20% CWS/S-Red Cold water dispersible, bright red coloring effect, allergen free	●	●	10 20		●	●	●		●	
β-Carotene 20% Tablet Suitable for tablets, based on modified starch, allergen free	●	●	10 20		●	●	●		●	

Role

Lycopene is a type of carotene, which is the source of tomato red and the most abundant carotenoid in human serum. Lycopene is a strong antioxidant that helps prevent the production of free radicals in the body, thereby reducing the damage of free radicals to cells in the body and related diseases. Some epidemiological studies have shown that lycopene can help reduce the risk of prostate cancer and cardiovascular disease.

NuColoris™ Lycopene

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
Lycopene 10% Beadlet, based on modified starch	•	•	10 20		•	•	•		•	
Lycopene 10% Spray-dried powder, based on modified starch	•	•	10 20		•	•	•		•	



NuColoris™
Lutein

Role

Lutein is the main carotenoid in the eyes, especially located in the macula, and has a positive effect on eye health. Lutein is a type of effective antioxidants can filter and block, reducing the damage caused by sunlight and ultraviolet rays. Consuming a large amount of food containing lutein can help reduce the risk of macular degeneration and cataracts.



Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
Lutein 0.5% Spray-dried powder, based on modified starch, cold water dispersible	●	●	10 20		●	●	●	●	●	
Lutein 1% Spray-dried powder, based on modified starch, cold water dispersible	●	●	10 20		●	●	●	●	●	
Lutein 5% Beadlet, based on modified starch, cold water dispersible	●	●	10 20		●	●	●		●	
Lutein 10% Beadlet, based on modified starch, cold water dispersible	●	●	10 20		●	●	●		●	



COAMINOS™
Taurine

Role

Taurine is a sulfur-containing β-amino acid that has a significant role in promoting dendritic differentiation and cell proliferation in human brain nerve cells. It can increase the total number of nerve cells in human brains, promote the synthesis of nucleic acids in nerve cells, accelerate the formation of inter-neural cell networks, and prolong the survival of nerve cells.

Taurine can improve nerve conduction and visual function and is very important baby's nervous system and vision development.

Taurine regulates the contraction of heart muscle, benefits cardiovascular activity, and promotes blood circulation.



Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
Taurine Pure crystal, content: 98.0–101.0%, compliant with JP/USP	●	●	25		●	●	●	●		

Role

L-Serine is an amino acid with crucial functions in various biosynthetic pathways and is vital for maintaining the proper functioning of the central nervous system and brain. As an amino acid produced by the cells themselves, it serves multiple purposes, such as improving metabolism, enhancing immunity, and combating diseases such as cancer and diabetes.

L-Serine is used in foods (for flavor additives), dietary supplements, medicine (for the synthesis of various serine derivatives, such as phosphatidylserine) and cosmetics (for humectants).

COAMINOS™ L-Serine

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Pigmentation	Antioxidation
L- Serine Pure Crystal, content:98.5-101.0%	●	●	25		●	●	●	●		

COAMINOS™ L-Cystine

Role

L-Cystine is a sulfur-containing amino acid that serves as a crucial component in the synthesis of proteins and the maintenance of their structure. It has functions such as detoxification, improving hair health, and enhancing immunity. It is primarily used in the preparation of downstream products like L-Cysteine hydrochloride, as well as in the fields of cosmetics and special dietary foods.

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		Liquid	Powder	Dietary supplements	Foods and beverages	Infant nutrition	Chemicals	Antioxidation
L-Cystine Pure Crystal, content:98.5-101.0%	•	•	25		•				•	

Role

L-Cysteine is a sulfur-containing amino acid that can promote the formation of gluten in dough and fermentation. It reacts with hexose or pentose sugars to produce a meat-like aroma, which makes it widely used as an additive in the food industry, including in the baking, condiment, and pet food sectors. Additionally, it serves as a raw material for the production of drugs such as N-acetylcysteine.

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		liquid	Pure Crystal	Dietary supplements	Foods and beverages	Infant nutrition	Pet food	Antioxidation
L-Cysteine Hydrochloride Monohydrate Pure Crystal, content:98.5-101.0%	●	●	25		●		●		●	
L-Cysteine Hydrochloride Anhydrous Pure Crystal content:98.0-101.5%	●	●	25		●		●			
L-Cysteine (Base) Pure Crystal, content:98.5-101.0%	●	●	25		●	●	●			●

COAMINOS™

L-Cysteine Series



Role

L-leucine is the only amino acid that can directly activate the "mTOR signaling pathway" — a key switch for muscle synthesis. Furthermore, it increases the production of growth hormone and helps burn visceral fat. These unique functions have led to its wide application in fields such as sports nutrition, weight management, and geriatric nutrition.

COAMINOS™

L-Leucine

Product and Description	Cert.		Pack size (KG)	Form		Main application				
	Kosher	Halal		liquid	Pure Crystal	Dietary supplements	Foods and beverages	Infant nutrition	Pet food	Antioxidation
L-Leucine Pure Crystal, content: 98.5–101%	●	●	25		●	●	●	●	●	

Products Leading the Future

