



ZHEJIANG MEDICINE CO.,LTD

168 Mid, Zhiyuan Avenue, Binhai New Area, Shaoxing, Zhejiang

+86-575-86126668

+86-575-86131771

www.zmc.top

nutrition@zmc.top



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PRODUCTS CATALOGUE HUMAN NUTRITION AND HEALTH





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COMPANY PROFILE

Zhejiang Medicine Co., Ltd (ZMC) founded in 1954, is staffed with over 6,000 employees worldwide and has over 50 years of manufacturing experience. We offer a diverse product line of ingredients for the dietary supplement, cosmetic, and functional food industries. ZMC is the foremost supplier of Vitamin E, Vitamin A, Beta-Carotene, Lutein, Lycopene, Fish Oil, CoQ10, Canthaxanthin, Natural Vitamin E, and Biotin.

Our advanced technologies ensure our products are of the highest quality. ZMC offers exceptional technical services to meet the various requirements of our global customers.

ZMC is committed to caring for human health and improving quality of life. We make every effort to offer our clients the best quality products and reliable service.

Focusing on the quality guideline "Quality and prestige are our lives; Innovation and service are our mission". The majority of our human nutrition products have third party FSSC 22000 certifications by Swiss SGS. Products from natural sources have IP certification by French EUROFINS. Additionally, ZMC production facilities are HALAL and Kosher certified. Several products are also in compliance with USP Dietary Ingredient Verification Program (DIVP); a prominent third party auditor ensuring the establishment of quality management and production systems.

As more and more people recognize the importance of good nutrition for leading healthy and active lives, the demand for ingredients that promotes health and well-being continues to grow. We are uniquely positioned to provide best in class ingredients to create value for our customers, partners, and society-at-large.

The more you know about ZMC quality the better you feel.

COMPANY PROFILE

CORPORATE CULTURE

A company rises and falls based on its management, and the quality of management comes from its culture. Excellent entrepreneurs advocate an outstanding corporate culture, and excellent corporate culture cultivates excellent teams. Since the 1980s, Zhejiang Medicine Co., Ltd. has continuously strengthened its corporate culture while also advancing its quality production systems. Incorporating the goal of exercising our responsibility to serve our global customers through the pharmaceutical industry and practice of "Caring for Human Health". The company vigorously promotes its corporate spirit of "Working Hard Together, Contributing & Innovating Together", and has established a corporate culture system of "Quality Standardization, Management Internationalization, R & D Internalization, and Capital Marketization" to build a contemporary pharmaceutical group. ZMC has formed an advanced management system and behavioral norms, attained internal unity and external development, providing a strong impetus for achieving the company's sustainable development while motivating employees to be proactive. The development of the company and its sound management systems have also created a positive atmosphere in which employees are loyal to the enterprise and can freely innovate. Corporate culture has thus become a huge driving force and valuable spiritual asset for innovation and development.

Corporate philosophy: Win-win, care, innovation



INTRODUCTION

Carotenoids are bioactive substances from fruits and vegetables with many health promoting properties. They are not essential in the way that vitamins are, but regular consumption helps to promote good health and to lower the risk for many diseases. These include age-related eye diseases like cataracts and macular degeneration, some cancers, and heart disease. Carotenoids also enhance our immune defenses. They include beta-carotene (provitamin A), lycopene, lutein and astaxanthin etc.

Optimizing the daily carotenoid intake, dietary supplements targeting individual needs are available as well as fortified beverages and foods. Besides their health function carotenoids have long been used by the food industry in many countries as nature-identical colorants for use in soft drinks, spreads and dairy products.

Pure carotenoids are orange to red crystals that are insoluble in water and only slightly soluble in vegetable oils. They are highly sensitive to light and oxygen. Carotenoids must be prepared in special formulations such as powders/beadlets, oil suspension or to render them bioavailable, stable and suitable for the special requirements of different applications.

OIL SUSPENSION

These products are viscous suspensions of microcrystalline carotenoids in vegetable oils like sunflower oil or corn oil. They can be used to color or fortify oil based foods like margarine. Other major applications include dietary supplements in the form of soft capsules.

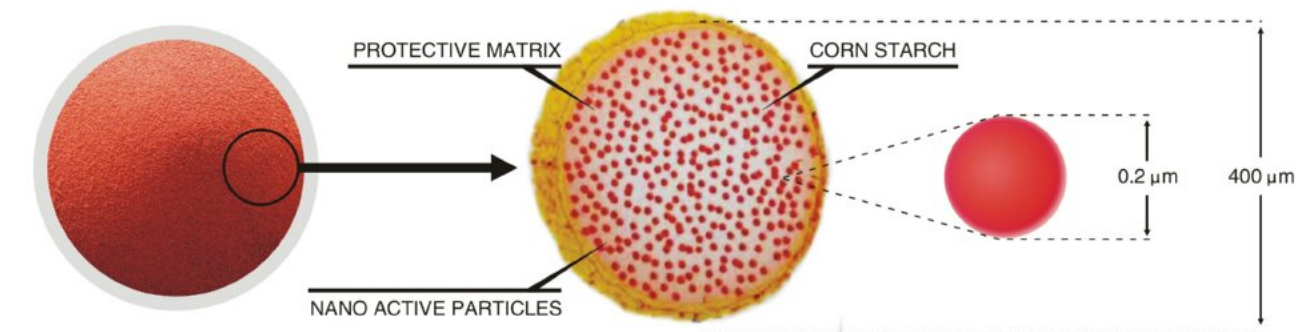
Typical ZMC products: Beta-Carotene 30% Oil Suspension, Lycopene 10% Oil Suspension

CAROTENOIDS

POWDERS/BEADLETS

Powders/beadlets formulation products consist of especially encapsulated and protected particles of carotenoids, embedded in a matrix consisting of carbohydrates, with excellent dispersibility even in cold water. These particles can withstand high pressure, temperature and humidity and are designed for use in dosage forms such as tablets, moreover, these formulations are suitable for the coloration and fortification of all kinds of water based foods including dairy or bakery goods, and a full range of beverages the formulations provide high stability and bioavailability as a source of vitamin A and as an antioxidant in all kinds of foods.

Typical zmc products: beta-carotene 10% cws-s, lutein 5% cws-s, lycopene 10% cws-s



PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
β -Carotene –Synthetic Vitamin A activity: 1,667 IU/mg β -Carotene				
β -Carotene 96% Crystalloid	E160a(i); FCC*; USP*; Ph.Eur.*	KOSHER MUI Halal		Not for direct use in food
β -Carotene Emulsion 5% / 10% / 10% R Emulsion 83,350/166,700/ 166,700 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 2) / carton	Especially suitable for fortification and coloration of beverages, also suitable for soups, sauces, cereals and confectionery.
β -Carotene Powder 1% CWS-K Powder, cold water dispersible, for baking Gelatin-free 16,670 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 4) / carton	Especially suitable for fortification and coloration of baking foods, also suitable for water-based foods, instant products, pudding, confectionery and milk products. Color range: yellow.
β -Carotene Beadlet 10% CWS-OS Beadlet, cold water dispersible Starch, for vegetarian 166,700 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 4) / carton	Especially suitable for fortification and coloration of beverages, soups, sauces cereals and confectionery. Also suitable for tablets and hard-shell capsules. Color range: yellow.
β -Carotene Beadlet 20% TAB-S Beadlet, tablet grade, cold water dispersible Starch, for vegetarian 333,400 IU Vitamin A/g.		KOSHER MUI Halal	(5kg × 4) / carton	For tablets and hard-shell capsules, especially for effervescent tablets. Also suitable for fortification and coloration of beverages and other water-based foods.
β -Carotene Oil Suspension 22% / 30% Oil suspension 366,740 /500,100 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 2) / carton (1kg × 10) / carton	For fortification and coloration of oil-based foods such as margarine, edible oil, salad and snacks. Also used for soft capsules.

PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
β -Carotene–Natural (from <i>Blakeslea Trispora</i>) Vitamin A activity: 1,667 IU/mg β -Carotene				
Natural β -Carotene 96% Crystalloid	E160a(iii); JECFA*; USP*	KOSHER MUI Halal		Not for direct use in food
Natural β -Carotene Powder 1% CWS-K Powder, cold water dispersible, for baking Gelatin-free 16,670 1U Vitamin A/g		KOSHER MUI Halal	(5kg × 4) / carton	Especially suitable for fortification and coloration of baking foods, also suitable for water-based foods, instant products puddings, confectionery and milk products. Color range: yellow.
Natural β -Carotene Beadlet 10% CWS-S Beadlet, cold water dispersible Starch, for vegetarian 166.700 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 4) / carton	Suitable for fortification and coloration of beverages and food. Also suitable for tablets and hard-shell capsules. Color range: yellow.
Natural β -Carotene Beadlet 20% CWS-S Beadlet, cold water dispersible Starch, for vegetarian 333,400 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 4) / carton	Suitable for fortification and coloration of beverages and food. Also suitable for tablets and hard-shell capsules. Color range: yellow.
Natural β -Carotene Oil Suspension 30% Oil suspension 500,100 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 2) / carton (20kg × 1) / carton	For fortification and coloration of oil-based foods such as margarine, edible oil, salad and snacks. Also used for soft capsules.

PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
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Lycopene-Natural
(from *Blakeslea Trispora*)

Natural Lycopene 96% Crystalloid	E160a(iii); JECFA*; USP*	KOSHER MUI Halal		Not for direct use in food
Natural Lycopene Beadlet 10% CWS-S Beadlet, cold water dispersible Starch for vegetarian		KOSHER MUI Halal	(5kg × 4) / carton	Especially suitable for fortification and coloration of beverages, also suitable for soups, sauces, cereals, confectionery, milk products and infant foods, and for tablets and hard-shell capsules. Color range: red
Natural Lycopene Oil Suspension 6%/10% Oil suspension		KOSHER MUI Halal	(5kg × 2) / carton	For fortification and coloration of oil-based foods such as margarine, edible oil, salad and snacks. Also used for soft capsules

Canthaxanthin

Canthaxanthin 96% Crystalloid	E161g; FCC*; JECFA*	KOSHER MUI Halal		Not for direct use in food
Canthaxanthin Beadlet 10%CWS-S Beadlet, cold water dispersible Starch, for vegetarian		KOSHER MUI Halal	(5kg × 4) / carton	Especially suitable for fortification and coloration of baking foods, also suitable for water-based foods, instant products puddings, confectionery and milk products. Color range: yellow.

PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
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Lutein-Natural
(Extracted from Marigold Flower)

Lutein Powder 0.5%/ 1.0% CWS Powder	E161b; FCC*; JECFA*; USP*; Low PAH	KOSHER MUI Halal	(5kg × 4) / carton	For tablets and hard-shell capsules, especially for effervescent tablets. Also suitable for beverages and other water-based foods
Lutein Beadlet 5%/ 10% TAB-S Beadlet, tablet grade, cold water dispersible Starch, for vegetarian		KOSHER MUI Halal	(5kg × 4) / carton	For tablets and hard-shell capsules, especially for effervescent tablets. Also suitable for beverages and other water-based foods
Lutein Oil Suspension 10%/ 20% Oil suspension		KOSHER MUI Halal	(5kg × 2) / carton 20kg / drum	For fortification and coloration of oil-based foods such as margarine, edible oil, salad and snacks. Also for soft capsules.
Lutein Oil Suspension 10% / 20% SAF Oil suspension		KOSHER MUI Halal	(5kg × 2) / carton 20kg / drum	For fortification and coloration of oil-based foods such as margarine, edible oil, salad and snacks. Also for soft capsules.





INTRODUCTION

Vitamins are organic compounds and they are vital nutrients that organisms require in limited amounts. Just like other essential nutrients, vitamins must be obtained from the diet since the organism cannot make them for survival.

Vitamins are essential nutrients that are required by humans in small amounts. This is why they are known as micronutrients. Vitamins are vital for life, aiding normal growth and healthy bodily functions such as cardiovascular, cognitive and eye health.

VITAMINS

They are needed for processes that create or use energy, such as the metabolism of proteins and fats, the digestion of food and absorption of nutrients, growth and development, physical performance, and regulation of cell function, with each vitamin having important and specific functions within the body. Fat-soluble vitamin such as Vitamin A, Vitamin E and Vitamin D3 are insoluble in water and only slightly soluble in vegetable oils. They are highly sensitive to light and oxygen. These vitamins normally be prepared in special formulations such as powders/beadlet render them bioavailable, stable and suitable for the special requirements of different applications.

Our powders/beadlets formulation products consist of especially encapsulated and protected particles of vitamins, embedded in a matrix consisting of carbohydrates, with excellent dispersibility even in cold water. These particles can withstand high pressure, temperature and humidity and are designed for use in dosage forms such as tablets, moreover, these formulations are suitable for the fortification of all kinds of water based foods including dairy or bakery foods, and a full range of beverages.

Typical ZMC products: Vitamin A Acetate 325 CWS/GFB, Vitamin A Palmitate 250 CWS/GFP, All-rac- α -Tocopheryl Acetate Powder 50%CWS.

PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
Vitamin A Vitamin A Acetate, Vitamin A Palmitate				
Vitamin A Acetate 1.0M Liquid 1,000,000 Vitamin A/g	FCC; USP*; Ph. Eur*	KOSHER MUI Halal	(5kg × 2) / carton 20kg / drum	For fortification of oils and fats, and for liquid pharmaceutical preparations such as soft capsules
Vitamin A Acetate 2.8M Crystalloid 2,800,000 U Vitamin A/g		KOSHER MUI Halal	20kg / drum	For fortification of oils and fats, and for liquid pharmaceutical preparations such as soft capsules
Vitamin A Acetate Powder 325 / 500 CWS/GFP Powder, cold water dispersible Gelatin-free 500,000 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 4) / carton	For fortification of dry food products such as flour, dry milk, beverage powders and water-based foods.
Vitamin A Acetate Beadlet 325 CWS/GFB Beadlet, cold water dispersible Gelatin-free 325,000 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 4) / carton	For fortification of dry food products such as flour, dry milk, beverage powders and water-based foods. Also used for tablets and capsules
Vitamin A Palmitate 1.0M Liquid, without stabilizers 1,000,000 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 2) / carton 20kg / drum	For fortification of oils and fats, and for liquid pharmaceutical preparations such as soft capsules
Vitamin A Palmitate 1.0M (Toc.) Liquid, all-rac-α-tocopherol as the stabilizer 1,000,000 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 2) / carton 20kg / drum	For fortification of oils and fats, and for liquid pharmaceutical preparations such as soft capsules

PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
Vitamin A Vitamin A Acetate, Vitamin A Palmitate				
Vitamin A Palmitate 1.7M Liquid, without stabilizers 1,700,000 IU Vitamin A/g	FCC; USP*; Ph. Eur*	KOSHER MUI Halal	(5kg × 2) / carton 20kg / drum 200kg / drum	For fortification of oils and fats, and for liquid pharmaceutical preparations such as soft capsules
Vitamin A Palmitate 1.7M (Toc.) Liquid, all-rac-α-tocopherol as the stabilizer 1,700,000 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 2) / carton 20kg / drum 200kg / drum	For fortification of oils and fats, and for liquid pharmaceutical preparations such as soft capsules
Vitamin A Palmitate Powder 250 / 500 CWS/GFP Powder, cold water dispersible Gelatin-free 250,000/500,000 IU Vitamin A/g		KOSHER MUI Halal	25kg / carton	For fortification of dry food products such as flour, dry milk, beverage powders and water-based foods
Vitamin A Palmitate Beadlet 250 /500 CWS/GFB Beadlet, cold water dispersible Gelatin-free 250,000/500,000 IU Vitamin A/g		KOSHER MUI Halal	(5kg × 4) / carton	For fortification of dry food products such as flour, dry milk, beverage powders and water-based foods. Also used for tablets and capsules

PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
Vitamin E- Synthetic all-rac- α -tocopherol, all-rac- α -tocopheryl acetate				
All-rac- α -Tocopherol 96% Liquid	FCC; USP*; Ph.Eur*;	KOSHER MUI Halal	{ 5kg × 2 } / carton (20 / 200) kg / drum 950kg / drum	For fortification and antioxidation of oils and fats, fry and unsaturated fatty acid.
All-rac- α -Tocopheryl Acetate 98% Liquid		KOSHER MUI Halal	{ 5kg × 2 } / carton (20 / 200) kg / drum 950kg / drum	For fortification of oils and fats and for liquid pharmaceutical preparations such as soft capsules.
All-rac- α -Tocopheryl Acetate Powder 15% SC Powder, cold water dispersible, transparent 150 IU Vitamin E/g		KOSHER MUI Halal	{ 5kg × 4 } / carton	For fortification of food and beverage requiring optical clarity.
All-rac- α -Tocopheryl Acetate Powder 50% CWS Powder, cold water dispersible 500 IU Vitamin E/g		KOSHER MUI Halal	{ 5kg × 4 } / carton (25kg × 1) / carton 50kg / drum 550kg / bag	For fortification of oils and fats, and for liquid pharmaceutical preparations such as soft capsules.
All-rac- α -Tocopheryl Acetate Powder 50% TAB / 75%TAB Powder, tablet grade 500 IU Vitamin E/g			20kg / carton	For tablets and hard-shell capsules.
All-rac- α -Tocopheryl Acetate Powder 50%SF Powder, silicon dioxide as carrier 500 IU Vitamin E/g		KOSHER MUI Halal	{ 25kg × 1 } / carton	For low-content tablets and hard-shell capsules.



PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
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Vitamin E –Natural

1000/1300/1409 IU RRR-α-Tocopherol Liquid 1,000/1,300/1,409 IU Vitamin E/g	FCC; USP*; Ph.Eur*; IP; Non–GMO; Low PAH	KOSHER MUI Halal	(20 / 190) kg / drum	For fortification and antioxidation of oils and fats, and for liquid pharmaceutical preparations such as soft capsules.
70% / 90% Tocopherols Concentrate,Mixed Liquid, suspension with small crystalloids is permitted		KOSHER MUI Halal	(20 / 190) kg / drum	For fortification and antioxidation of oils and fats, fry and unsaturated fatty acid.
RRR-α-Tocopheryl Acetate 96% Liquid		KOSHER MUI Halal	(20 / 190) kg / drum	For fortification of oils and fats, and for liquid pharmaceutical preparations such as soft capsules.
RRR-α-Tocopheryl Acetate 1000/1100/1200 IU Liquid		KOSHER MUI Halal	(20 / 190) kg / drum	For fortification of oils and fats, and for liquid pharmaceutical preparations such as soft capsules.
RRR-α-Tocopheryl Acetate Powder 700 CWS Powder, cold water dispersible 700 IU Vitamin E/g		KOSHER MUI Halal	(5kg × 4) / carton	For fortification of dry food products such as flour, dry milk and beverage powders and water–based foods.
RRR-α-Tocopheryl Acetate Powder 950 TAB Powder, tablet grade 950 IU Vitamin E/g			(5kg × 4) / carton	For tablets and hard–shell capsules.
Mixed Tocopherols Powder 30% /30% S Powder		KOSHER MUI Halal	(5kg × 4) / carton	As a nutrient supplement and antioxidant in foods.

PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
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Vitamin D3

Vitamin D3 Powder 100CWS Powder Silicon dioxide	JP; USP*; Ph.Eur*;	KOSHER MUI Halal	(5kg × 4) / bag	For fortification of dry food products such as protein solid beverages.
Vitamin D3 Powder 100CWS-P Powder Tricalcium Phosphate		KOSHER MUI Halal	(5kg × 4) / bag	For fortification of dry food products such as protein solid beverages.
Vitamin D3 Beadlet 100CWS-S Beadlet		KOSHER MUI Halal	(5kg × 4) / bag	For fortification of dry food products such as protein solid beverages.

Biotin– Synthetic

Biotin Crystalloid	FCC; USP*; Ph.Eur*	KOSHER MUI Halal	(2 / 10) kg / carton 20kg / drum	For dietary supplements and fortified foods also used for tablets and hard–shell capsules.
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INTRODUCTION

Omega-3s eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) are well-known for delivering proven heart, brain and eye health benefits, research shows that omega-3s EPA and DHA also help support optimal immunity, sports performance, positive mood and better sleep quality.

FISH OIL



PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
Polyunsaturated fatty acid series				
Omega-3 Fish Oil 5025 EE/TG EPA ≥ 50.0% DHA ≥ 25.0%	USP*; Ph.Eur*	KOSHER MUI Halal	(20 / 190) kg / drum	Used in dietary supplements
Omega-3 Fish Oil 6015 EE/TG EPA ≥ 60.0% DHA ≥ 15.0%		KOSHER MUI Halal	(20 / 190) kg / drum	Used in dietary supplements
Omega-3 Fish Oil 2550 EE/TG EPA ≥ 25.0% DHA ≥ 50.0%		KOSHER MUI Halal	(20 / 190) kg / drum	Used in dietary supplements
Omega-3 Fish Oil 0160 EE/TG EPA ≤ 1.0% DHA ≥ 60.0%		KOSHER MUI Halal	(20 / 190) kg / drum	Used in dietary supplements
Omega-3 Fish Oil 0180 EE/TG EPA ≤ 1.0% DHA ≥ 80.0%		KOSHER MUI Halal	(20 / 190) kg / drum	Used in dietary supplements
Omega-3 Fish Oil 4638 EE/TG EPA ≥ 46.0% DHA ≥ 38.0%		KOSHER MUI Halal	(20 / 190) kg / drum	Used in dietary supplements

PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
Polyunsaturated fatty acid series				
Omega-3 Fish Oil The content and proportion of EPA and DHA can be customized according to customers requirement	USP*; Ph.Eur*	KOSHER MUI Halal	(20 / 190) kg / drum	Used in dietary supplements.
Ethyl Icosapentate 70 (7000 EE) EPA ≥ 70.0% DHA ≤ 0.1%		KOSHER MUI Halal	(20 / 190) kg / drum	API Intermediate
Ethyl Icosapentate 80 (8000 EE) EPA ≥ 80.0% DHA ≤ 0.1%		KOSHER MUI Halal	(20 / 190) kg / drum	API Intermediate
Omega-3-Acid Ethyl Esters 90 EPA : 430.0mg/g ~ 495.0mg/g DHA : 347.0mg/g ~ 403.0mg/g		KOSHER MUI Halal	(20 / 190) kg / drum	API
Ethyl Icosapentate 97 EPA :965.0mg/g ~ 1010.0mg/g		KOSHER MUI Halal	(20 / 190) kg / drum	API



COENZYME Q10

PRODUCT	COMPENDIA/ CERTIFICATION	CONFIRM- ATION	PACKAGE SIZE	MAIN APPLICATION
Coenzyme Q10				
Coenzyme Q10 98% Crystalloid	JP*; USP*; Ph.Eur*.	KOSHER MUI Halal	5kg/tin 10kg/carton 25kg/drum	For soft capsules.
Coenzyme Q10 Powder 10%/20%/40% CWS Powder, cold water dispersible		KOSHER MUI Halal	(5kg x 4) /carton	For fortification of water-based foods instant products, puddings, confectionery and milk products, as well as effervescent tablets.
Coenzyme Q10 Powder 50% TAB Powder, tablet grade		KOSHER MUI Halal	(5kg x 4) /carton	For tablets and hard-shell capsules.

ADDITIONAL INFORMATION

In general, vitamins, carotenoids and other nutraceuticals are relatively sensitive products and the storage stability is influenced by many factors. For this reason, indications of the relevant storage conditions are given on the labels of most of the products.

NOTE

* for the active ingredients
Toc:DI- α -tocopherol

COMPENDIA/CERTIFICATION

FCC	Food Chemicals Codex
USP	United States Pharmacopoeia
IP	Identity Preservation
JP	Japan pharmacopoeia
Non-GMO	Non-Genetically Modified Organism
Ph Eur.	Pharmacopoeia of Europe
Low PAH	Low content of Polycyclic Aromatic Hydrocarbons
JECFA	Joint FAO/HO Experts Committee on

Our material complies with the monographs of the above-mentioned compendia. It is the responsibility of the manufacturing company to ensure that the final product is manufactured according to current local regulations and standards.

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