



Global Specialty Ingredients

PRODUCT LIST

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GLOBAL SPECIALTY INGREDIENTS (M) SDN BHD (832177-M)
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Product List Summary

Product Category	Products \ Brand Name
Vitamins , Colors	BETA-CAROTENE
Vitamins	APOCAROTENAL
Vitamins	ASTAXANTHIN
Vitamins	CANTHAXANTHIN
Vitamins	LUTEIN
Vitamins	LYCOPENE
Vitamins	VITAMIN D3



Product Name: **BETA CAROTENE.**

Product Statement:

β -Carotene – **BETA CAROTENE** is a strongly-colored red-orange, fat-soluble compound belonging to the Carotenoid group. It is a precursor of Vitamin A that occurs naturally in plants and fruits. It has potent antioxidant characteristics that can protect cells from the damaging effects of free radicals. Various forms of Beta-Carotene have been created based on customer's requirement and specifications.

Application:

Beta-Carotene Formulations	Description	Application	Characteristics
Beta-Carotene 30% (corn oil) Beta-Carotene 30% Sun (sunflower oil) Beta-Carotene 30% Soy (soybean oil)	Suspension	Soft-gelatine capsules Fortification/ coloration of oil-based foods.	Yellow to orange colour.
Beta-Carotene 22% LF (corn oil)	Suspension	Fortification/ coloration of oil-based foods such as pop corns and frying oil.	Heat Stable. Yellow to orange colour.
Beta-Carotene 1% SD Beta-Carotene 5% SD	Spray-dried powder	Coloration of water based foods, beverages and instant products.	Yellow to yellow-orange colour.
Beta-Carotene 10% DG (modified starch) Beta-Carotene 10% DG/F (fish gelatine)	Beads	Fortification/ coloration of water based food and beverages.	Yellow-orange to orange colour.
Beta-Carotene 10% DC (porcine gelatine) Beta-Carotene 20% DC (porcine gelatine)	Beads	Directly-compressed tablets.	Yellow-orange to orange colour.
Beta-Carotene 10% DC/AF (modified starch) Beta-Carotene 20% DC/AF (modified starch)	Beads	Directly-compressed tablets, Fortification of nutritional bars.	Yellow-orange to orange colour.
Beta-Carotene Emulsion 1 % Beta-Carotene Emulsion 2 % Beta-Carotene Emulsion 5 % Beta-Carotene Emulsion 10 %	Emulsion	Fortification/ coloration of water based foods and beverages.	Yellow to yellow-orange colour.
Beta-Carotene 1% SD/C	Spray-dried powder	Coloration of clear beverages, water-based foods, and instant products.	Yellow to yellow-orange colour

Certifications:

BETA CAROTENE range products are being certifies for following standards and Certifications: - Halal Cert & Kosher Cert.



Product Name: **APOCAROTENAL.**

Product Statement:

APOCAROTENAL is a carotenoid found in spinach and citrus fruits. **APOCAROTENAL** has an orange to orange-red colour and is used for coloration in foods. Like other carotenoids, **APOCAROTENAL** plays a role as a precursor of vitamin A, even though it has 50% less pro-vitamin A activity than Beta-Carotene.

Application :

Product name	Description	Application	Characteristics
Apocarotenal 2% Apomix 73	Solution	Coloration of processed cheese, fats and oils.	Orange colour
Apocarotenal 20% LF	Suspension	Coloration of fat based foods	Orange colour
Apocarotenal 1% SD	Spray-dried powder	Coloration of beverages and water-based foods.	Orange colour
Apocarotenal 10% DG	Beads	Coloration of beverages and water-based foods	Orange Colour

Certifications:

APOCAROTENAL range products are being certifies for following standards and Certifications: - Halal Cert & Kosher Cert.



Product Name: **ASTAXANTHIN**

Product Statement: **ASTAXANTHIN** belongs to the Carotenoid group. It is a red pigment that occurs naturally in a wide variety of living organisms. In commercial fish and crustacean farms, **ASTAXANTHIN** is commonly added to feeds in order to make up for the lack of a natural dietary source of the pigment. Not only does **ASTAXANTHIN** provide for pigmentation in these farmed animals, it also has been found to be essential for their proper growth and survival.

Application:

Astaxanthin Formulations	Description	Application
AstaFeed 10%	Beads	Coloration of aquatic animals
AstaFeed 2%	Beads	Coloration of aquatic animals

Certifications: **ASTAXANTHIN** range products are being certifies for following standards and Certifications: - Halal Cert & Kosher Cert.



Product Name: **CANTHAXANTHIN**

Product Statement:

CANTHAXANTHIN is a substance belonging to the Carotenoid family. It has an orange to orange-red color. It is generally permitted in the US for use in foods. The presence of **CANTHAXANTHIN** in feed for poultry and farmed fish can lead to a more intensely-colored egg yolk and flesh from poultry, salmon and trout. It is approved for a number of such applications in the US as well as in the EU.

Application:

Canthaxanthin Formulations	Description	Application	Characteristics
Canthaxanthin 1% SD	Spray-dried powder	Coloration of water based foods, beverages and for instant products.	Orange to orange-red colour.
Canthaxanthin 10 % DG (modified starch) Canthaxanthin 10 % DG/F (fish gelatine)	Beads	Coloration of water based foods and beverages.	Orange to orange-red colour.
CanthaFeed 10%	Beads	Coloration of aquatic animals and poultry.	Orange to orange-red colour.

Certifications:

CANTHAXANTHIN range products are being certifies for following standards and Certifications: - Halal Cert & Kosher Cert.



Product Name:

LUTEIN

Product Statement:

LUTEIN is a xanthophyll and occurs naturally in green leafy vegetables such as spinach, kale and egg yolks. It has antioxidant properties and is also found in the human retina. Cataracts and age-related macular degeneration (AMD) are the leading causes of acquired blindness in the Western world. Blue light is believed to induce oxidative stress and possible free-radical damage in the eyes.

According to scientific literature, **LUTEIN** is capable of filtering the high-energy, blue wavelengths of light from the visible light spectrum. Thus, together with its sister compound zeaxanthin, it may play a key role in the maintenance of eye-health. Leading doctors recommend a dietary intake of at least 6 mg of **LUTEIN** per day to benefit from these positive effects. **LUTEIN**, like zeaxanthin, has an orange-red color.

Application:

Product name	Description	Application
Lutein 5% DC/AF (modified starch)	Beads	Directly-compressed tablets Fortification of nutritional bars.
Lutein 5% DC (porcine gelatine)	Beads	Directly-compressed tablets.
Lutein 20% LF	Liquid	Soft-gelatine capsules Fortification oil-based foods.
Lutein 10% DC / AF	Beads	Directly-compressed tablets

Certifications:

LUTEIN range products are being certifies for following standards and Certifications: - Halal Cert & Kosher Cert.



Product Name:

LYCOPENE

Product Statement:

LYCOPENE is a Carotenoid that is naturally found in red fruits and vegetables such as tomatoes, watermelons and papaya. It has no vitamin A activity. The chemical structure makes it a powerful antioxidant. Preliminary epidemiological research has shown an inverse correlation between the dietary consumption of **LYCOPENE** and cancer risk.

Application:

Product name	Description	Application
Lycopene 5% DC (porcine gelatine)	Beads	Directly-compressed tablets.
Lycopene 5% DC/AF (modified starch) Lycopene 10% DC/AF (modified starch)	Beads	Directly-compressed tablets Fortification of nutritional bars.
Lycopene 10% LF	Liquid	Soft-gelatine capsules Fortification oil-based foods.

Certifications:

LYCOPENE range products are being certifies for following standards and Certifications: - Halal Cert & Kosher Cert.



Product Name:

VITAMIN D3

Product Statement:

VITAMIN D is a group of fat-soluble secosteroids, the two major physiologically relevant forms of which are **VITAMIN D2** (ergocalciferol) and **VITAMIN D3** (cholecalciferol). **VITAMIN D3** is produced in the skin of vertebrates after exposure to ultraviolet B light from the sun or artificial sources, and occurs naturally in a small range of foods. **VITAMIN D** deficiency is known to cause thin, brittle, or misshapen bones. An adequate dietary intake of **VITAMIN D** together with calcium is essential for a balanced bone metabolism and maintenance. It helps to support bone mineralization and thus contributes to healthy and strong bones right into late stages of life.

Application:

Product name	Description	Application
Vitamin D3 100 SD	Spray-dried powder	Directly-compressed tablets Fortification of foods and beverages
Vitamin D3 100 A	Beads	Fortification of foods and beverages
Vitamin D3 1 MIU/g	Yellow colour Liquid	Fortification of oil-based foods, soft gels
Vitamin D3 100DC/B	Beads	Directly-compressed tablets

Certifications:

VITAMIN D range products are being certified for following standards and Certifications: - Halal Cert & Kosher Cert.