

PRODUCT NAME	PRODUCT FORM	PRODUCT HIGHLIGHTS	BENEFITS
LightDHA™ Algal DHA Oil <i>Docosahexaenoic Acid</i>	Oil-soluble Liquid Pale yellow to orange-yellow, characteristic odor.	An Omega-3 polyunsaturated fatty acid oil synthesized via fermentation using a superior strain of marine-sourced <i>Schizochytrium</i> sp. Characterized by high DHA content, this product was jointly developed by LightSyn and top Chinese research institutes, ensuring sustainability, safety, and controllable quality.	• Eye & Brain Development • Cardiovascular Health • Cognitive Improvement • Antioxidant & Anti-inflammatory
ChlorellaGold® Chlorella Powder <i>Chlorella vulgaris/sp.</i>	Fine Powder Human Grade: Vivid green Feed Grade: Dark green	A single-cell green algae from freshwater environments, known as a "Complete Nutritional Package." Cultivated in advanced closed photobioreactors. Rich in 50-60% high-quality complete protein, vitamins, minerals, chlorophyll, and CGF.	• Human: Immune Support, Detoxification • Feed: Growth Performance, Enhanced Immunity, Improved Meat/Egg/Milk Quality
HT <i>Hydroxytyrosol</i>	Liquid or Powder Characteristic odor.	A natural, highly effective antioxidant component derived from olives. Activates longevity pathways and delays aging. LightSyn utilized cutting-edge micro-encapsulation technology to develop a powder form, overcoming low stability and discoloration issues.	• Antioxidant & Anti-inflammatory • Anti-aging • Cardiovascular Health • Joint Health

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SAL <i>Salidroside</i>	Crystalline Powder White to off-white.	Primary active component of Rhodiola rosea, manufactured via synthetic biology. Features high antioxidant efficacy, eco-friendly safety, and high purity. As a cosmetic ingredient, it provides whitening, anti-inflammatory, and anti-aging benefits.	• Cardiopulmonary Protection • Neuroprotection • Cardiovascular Health • Antioxidant & Whitening
NouraDCI® D-Chiro-Inositol <i>D-Chiro-Inositol</i>	Powder White to off-white.	A core component from carob extract, manufactured via synthetic biology. High yield, superior purity. Unique biological activities for women's health, particularly in regulating blood sugar and improving metabolic syndrome.	• Blood Sugar Regulation • PCOS Improvement • Antioxidant & Anti-inflammatory
Vitamin C <i>Ascorbic Acid</i>	White crystals or powder Odorless, sour-tasting, highly soluble in water.	A potent and natural antioxidant, an essential vitamin for the human body, and extremely safe.	• Health: Strengthens the immune system, promotes collagen synthesis, and effectively neutralizes free radicals. • Food: Widely used in fruit juices, baked goods, and meat products as an antioxidant to preserve color and flavor.
Inositol <i>Cyclohexanehexol</i>	White crystalline powder Odorless, slightly sweet taste, stable in air.	Belongs to the vitamin-like group (B-complex vitamins), with good biocompatibility and high affinity.	• Health: Helps lower blood lipids and prevent fatty liver; plays a positive role in improving sleep and relieving mental stress. • Food: Commonly used in sports energy drinks, high-end health supplements, and infant formula as a key nutritional supplement.

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Monosodium Glutamate (MSG) <i>Monosodium 2-aminoglutarate</i>	Colorless to white powder Odorless, with a strong savory flavor.	The most widely used and well-established natural amino acid-based flavor enhancer globally.	• Food: Significantly enhances the umami flavor of dishes, condiments, and processed foods, improves overall taste, and stimulates appetite.
Sodium Saccharin <i>Sodium o-phthalylsulfonylimide</i>	Colorless or whitish powder Extremely sweet taste.	A classic sweetener with extremely high sweetness, zero calories, stable properties, and very low production costs.	• Health: Does not cause fluctuations in blood sugar levels, making it an ideal sweetener alternative for diabetics and those managing their sugar intake or trying to lose weight. • Food: Used in the formulation of low-calorie beverages, sugar-free foods, and as a flavoring agent in certain foods.
Sodium Hexametaphosphate <i>Sodium polyphosphate</i>	Colorless, transparent flakes Highly hygroscopic and readily soluble in water.	A highly effective food-grade polyvalent chelating agent, moisture retainer, and texture modifier.	• Food: Improves water-holding capacity and elasticity of meat products; prevents protein precipitation and fat rancidity in dairy products; stabilizes natural pigments.

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Ascorbyl Palmitate <i>L-Ascorbyl Palmitate</i>	White to off-white powder Citrus odor; sparingly soluble in water, readily soluble in ethanol and vegetable oils.	Overcomes the limitation of ordinary vitamin C being insoluble in oil, offers excellent stability, and is the natural preservative and synergistic agent of choice for fats, oils, and high-fat foods.	• Health: Penetrates more effectively into cell membranes to protect them from oxidative damage, making it a highly effective anti-aging and nutritional fortification ingredient. • Food: Specifically designed to prevent oxidative rancidity in cooking oils, nuts, instant noodles, and oil-containing baked goods, extending shelf life while preserving natural flavor.
Chitosan <i>Poly-D-glucosamine</i>	Off-white to pale yellow powder With a slight pearlescent luster, odorless and tasteless.	Non-animal-derived/Vegan: Extracted from fungi such as mushrooms or rhizobia, it completely avoids seafood allergens and meets the demands of the high-end plant-based market.	• Health: Known as the “fat catcher,” it adsorbs fats to aid in weight management and promotes gut microbiome health. • Food: Used as a natural, vegan antimicrobial preservative to form a protective film on fruits and vegetables or as a clarifying agent in alcoholic beverages.
Spirulina <i>Spirulina Powder</i>	Deep green to dark green powder Possesses a distinctive algal aroma.	All-around superfood: Contains up to 60%-70% protein and is rich in gamma-linolenic acid, carotenoids, and minerals.	• Health: Provides comprehensive nutrition, significantly boosts immunity, combats fatigue, and improves anemia. • Food: Used as a natural nutritional fortifier in pasta and functional snacks, while also serving as a natural green pigment.