HSF | NutraColour®

APPLICATION SOLUTIONS FOR ALL DOSAGE FORMS OF FAT-SOLUBLE NUTRIENTS

As a supplier of natural functional raw materials, HSF Biotech has focused its R&D strengths and resources for over a decade, accelerating R&D breakthroughs and the commercialization process in the field of biomanufacturing. We have established a complete, independently controlled industrial chain, spanning from strain design and cultivation to bio-fermentation and efficient extraction and separation.

Strain advantages:

High-throughput strain screening and cultivation technology has accelerated the identification of superior strains. Currently, HSF has established a library of more than 100 superior industrial strains, laying a solid foundation for high-yield fat-soluble nutrients.

Platform advantages:

We utilize fully automated fermentation equipment to optimize fermentation conditions and precisely regulate strain growth and transformation. Our advanced thousand-ton-scale production line represents a major breakthrough in the industrialization of functional lipid fermentation.

Technological Advantages:

As a leading domestic manufacturer of functional lipids, HSF has built a full-chain technological advantage covering R&D and production in the field of functional lipid nutrients, especially natural pigments. Leveraging our independently developed precision extraction and separation system and advanced microencapsulation technology, we consistently provide customers with highly stable and bioavailable lipid nutrient solutions.

Application advantages:

As a manufacturer that deeply understands customer needs, HSF extends the application range of raw materials and has established a scientific, self-developed customized solution system. We can match the best product customization solution according to different application requirements.

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Microencapsulated powder: A revolutionary breakthrough in water-based systems

Core advantages:

Excellent water solubility: Rapidly disperses in water-based formulations.

High stability: Effectively blocks light and oxygen, ensuring a long shelf life.

High bioavailability: Nano/micron-sized particles for high absorption efficiency.

Easy to use: Good flowability, dust-free, and easy to mix.

Oil suspensions: High-capacity, highly stable oil-based solutions

Core advantages:

High loading capacity: Carries higher levels of active ingredients, exceeding traditional solubility limits.

Stable properties: Long-term storage without stratification, precipitation, or separation.

Easy to use: Suitable for various dosage forms with uniform content.

Natural properties: No complex ingredients, ideal for clean label products.

Granular form: The ideal choice for solid dosage forms

Core advantages:

Easy to process: Suitable for tableting, hard capsules, and other formulations with high production efficiency.

High pressure resistance: Can be directly compressed without oil leakage.

Masks unpleasant flavors: Multi-layer encapsulation improves taste.

Emulsion: Precise coloring and nutritional fortification

Core advantages:

Natural coloring: Perfectly aligns with the clean label trend.

Extremely simple to apply: No pretreatment required; disperses rapidly and uniformly.

Stable properties: Long-term storage without stratification, precipitation, or separation.

Core Ingredients	Specification		Application
Beta-carotene	Crystal	96%	Oils
	Powder/CWS	1%/5%/10%/20%	Solid beverages, liquid beverages, gummies
	Particles	10%/20%	Hard capsules, tablets
	Oil suspension	30%	Oils, soft capsules
	Emulsion	2%	Liquid beverages
Lycopene	Powder/CWS	96%	Oils
	Particles	5%/10%	Hard capsules, tablets
	Oil suspension	5%/6%/10%	Oils, soft capsules
Lutein	Powder/CWS/CWD	5%/10%/20%	Solid beverages, liquid beverages, gummies
	Particles	5%/10%/20%	Hard capsules, tablets
	Oil suspension	10%/20%	Oils, soft capsules
Lutein esters	Powder/CWS/CWD	5%/10%	Solid beverages, liquid beverages, gummies
	Particles	5%/10%	Hard capsules, tablets
	Oil suspension	10%/20%	Oils, soft capsules
Zeaxanthin	Powder/CWS	5%	Solid beverages, liquid beverages, gummies
	Particles	5%	Hard capsules, tablets
	Oil suspension	5%/10%/20%	Oils, soft capsules
Astaxanthin	Powder/CWS	2%/2.5%	Solid beverages, liquid beverages, gummies
	Particles	2%/2.5%	Hard capsules, tablets
	Oil suspension	5%/10%	Oils, soft capsules
	Emulsion	0.10%/0.50%	liquid beverages
Coenzyme Q10	Powder/CWD	1%/10%/20%/40%	Solid beverages, liquid beverages, gummies
	Emulsion	5%/10%	Liquid beverages
Fat-soluble vitamins (Customized product)	Vitamin A, Vitamin D3 , Vitamin E, Vitamin K, etc.		

CWS: Cold Water Soluble CWD: Cold Water Dispersible Powder