

TECHNICAL DATA SHEET

Lutision™ Lutein Oil-suspension

20% YTC

Chemical Properties

CAS No: 127-40-2;

EINECS No.: 204-840-0

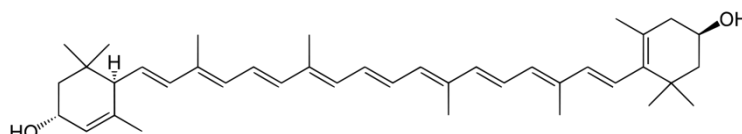
INCI name: Xanthophyll

Chemical Formula: C₄₀H₅₆O₂

Molecular Weight: 568.87

Botanical source: *Tagetes erecta* L.

Used part: Marigold flower



Description

Suspension series product are obtained by evenly dispersing nano-sized lutein, zeaxanthin and lutein ester and into the vegetable oils with proper dosage of antioxidants (Vitamin E). It's advantage is the active ingredient of the product can be well protected and not easy to be oxidized, to ensure the stability. Usually, It's made into soft capsule or eye health care products, or can be added to a variety of fat-soluble products.

Solubility

It is insoluble in water, but can be added to a variety of fat-soluble products.

Specification

Item	Specification	Test Method
Appearance	Viscous oil	Visual
Color	Orange-yellow or red yellow	Visual
Total carotenoids	Min 22.0%	UV
Lutein	Min 20.0%	HPLC
Zeaxanthin	Min 1.2%	HPLC
Loss on drying	Max 1.0%	GB 5009.3
Heavy metals	Max 10.0ppm	Atomic Absorption
Lead	Max 3.0ppm	Atomic Absorption
Arsenic	Max 0.5ppm	Atomic Absorption
Cadmium	Max 1.0ppm	Atomic Absorption
Mercury	Max 0.1ppm	Atomic Absorption
N-hexane	Max 25ppm	GC-ECD
Total plate count	Max 1000 CFU/g	AOAC
Total yeast & mold	Max 100 CFU/g	AOAC
<i>E. Coli.</i>	Negative	AOAC
<i>Salmonella</i>	Negative	AOAC

Ingredients

Contains 20% lutein, 78% Vegetable Oil, 2% Natural Tocopherol and Ascorbyl Palmitate as antioxidant. (Y is short for Vegetable Oil, T is short for Natural Tocopherol, C is short for Ascorbyl Palmitate)

Labeling

In the United States and the European Union: Lutein

Applications

1. It's widely used in eye health care products, for example: lutein soft capsule, lutein ester soft capsule, etc.
2. Functional food, for example: margarine, sandwich biscuit, salad sauce coloring.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

Handling recommendations

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container.

Packaging, Storage & Shelf Life

Package	5kg/20kg in plastic drums, 10kg medicinal aluminum can; or according to customers' requirements.
Storage	Store in a well-closed container away from moisture and direct sunlight.
Shelf Life	2 years if sealed and stored properly.