

TECHNICAL DATA SHEET

Lutision™ Lutein Esters Oil Suspension

20% YT

Chemical Properties

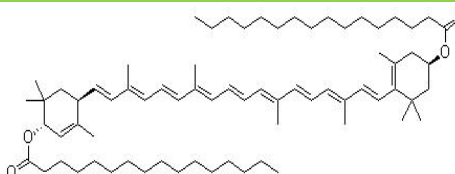
CAS No: 547-17-1;

Chemical Formula: $C_{72}H_{116}O_4$

Molecular Weight: 1045.71

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). Its advantage is the active ingredient of the product can be well protected and not easy to be oxidized, to ensure the stability.

Solubility

It is insoluble in cold water, but soluble in ethanol, chloroform and ether.

Specification

Item	Specification	Test Method
Appearance	Orange yellow or red yellow viscous oil	Visual
Lutein Esters	Min 20.0%	UV
Total solvent residuals	Max 50ppm	In-house
N-hexane residuals	Max 25ppm	GC-ECD
Heavy metals	Max 10ppm	GB 5009.74
Lead	Max 3.0ppm	GB 5009.12
Arsenic	Max 1.0ppm	GB 5009.11
Cadmium	Max 1.0ppm	GB 5009.15
Mercury	Max 0.1ppm	GB 5009.17
Total plate count	Max 1000 CFU/g	GB 4789.21
Yeasts and molds	Max 100 CFU/g	GB 4789.21
<i>E. Coli</i>	Negative	GB 4789.21
<i>Salmonella</i>	Negative	GB 4789.21
<i>Pathogenic bacteria</i>	Negative	GB 4789.21

Ingredients

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). (Y is short for vegetable oils, T is short for Vitamin E)

Labeling

In the United States and the European Union: Lutein Esters

Applications

As a coloring agent and a nutrient for food such as fast food, baking food, drink, jelly, confectionery and dairy products.

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

Stored with room temperature and without sunlight, frozen will be better. After opening please use it immediatly, if not please pack it in vaccum.

Packaging, Storage &Shelf Life

Package	20kg/drum;or according to customers' requirements.
Storage	Stored with room temperature and without sunlight, frozen will be better.
Shelf Life	18months if sealed and stored properly.