



Technical Data Sheet

Product Name: Lipo-Vida™ Liposomal Astaxanthin 2%

Product Code: EZ891339a

1. Technical Data Sheet		
Chemical Name	Liposomal Astaxanthin	
CAS Number	472-61-7	
Molecular Formula	C ₄₀ H ₅₂ O ₄	
Molecular Weight	596.84 g/mol	
Compliance (Food / Pharmacopoeia / FCC / Feed)	Food	
Brief Introduction:		
Liposomal Astaxanthin is an advanced antioxidant supplement that combines the potent benefits of astaxanthin with cutting-edge liposomal delivery technology. Astaxanthin, a naturally occurring carotenoid derived from microalgae like Haematococcus pluvialis, is known for its strong antioxidant and anti-inflammatory properties. However, its low water solubility and poor absorption limit its effectiveness in traditional forms. Liposomal technology solves this by encapsulating astaxanthin within microscopic phospholipid vesicles called liposomes. These structures mimic cell membranes, protecting astaxanthin from degradation and enhancing its absorption and bioavailability in the body. This results in more efficient delivery to cells and tissues, ensuring maximum antioxidant protection. Liposomal Astaxanthin is commonly used in dietary supplements, skincare, and anti-aging formulations to support eye health, skin vitality, and overall wellness. This innovative approach makes it superior to conventional astaxanthin supplements.		
Item	Standard	Analysis Method
Appearance	Pink color powder	Visual
Odor &Taste	Characteristic	Organoleptic
Assay	≥2%	HPLC
Water	≤6%	USP
Particle size	≥95% Passes 40 mesh	USP
Heavy metals		
Total Heavy Metals	≤10 ppm	USP
Lead	≤1.0 ppm	USP
Arsenic	≤1.0 ppm	USP
Mercury	≤0.5 ppm	USP
Cadmium	≤1.0 ppm	USP
Microorganism		
Total plate count	≤1000 cfu/g	AOAC
Molds & Yeasts	≤100 cfu/g	AOAC
E. coli	Negative	AOAC
Salmonella	Negative	AOAC
Staphylococcus	Negative	AOAC



Storage & Shelf Life	
Package	Pack in paper-drums and two plastic bags inside. Net weight : 25kg/drum
Shelf Life	24 months if store under the conditions above and stay in original packaging.
Storage	Stored in cool and dry places. Keep away from strong light and heat.

2.Origin & Ingredient			
Country of origin of the product: China		Origin statement: available ☒	
This product is a pure material ☐		This product is a compound material ☒	
Animal origin	☐ bovine	Specific Source: /	
	☐ porcine	Specific Source : /	
	☐ ovine	Specific Source : /	
	☐ others:	Specific Source: /	
Synthetic	☐	Starting material:	Origin:
Biotechnological processing	☐ Catalysis By Enzymes	Name of Enzyme: / Sources of Enzymes : /	
	☒ Fermentation	Source of Medium: / Strain: /	
Botanical Origin	Botanical Name:	/	
	Part:	/	
	Wild or Cultivated :	/	
	Country of Origin:	/	
	Solvent Used :	/	

3.Nutrition Data	
Nutritional Composition	☒ Per 100g ☐ Per Serving
☐ Energy (KJ) ☒ Energy (Kcal)	0kcal
Fat (g)	0
Carbohydrates (g)	0
Protein (g)	0
Sodium (mg)	0
Remarks: Nutrition Data Are Obtained By 3 rd Party Lab; Tested on A Yearly Basis	

4. Non-GMO Declaration		
	YES	NO (Means Not Contain)



The product does not contain or consist of GMO	☐	☒
The product is not produced from GMO or not contain ingredients produced from GMO (irrespective of whether there is NDA or protein of GM origin in the final production)	☐	☒
This product is not produced by means of GM microorganism including precursor substances, e.g., with GMOs or Genetically Modified microorganisms processing aids (bacteria, yeast,).	☐	☒
This product is not produced with the help of enzymes, which were obtained from GMOs	☐	☒
Does the product contain any ingredients from animal?	☐	☒
If yes, are genetically modified crops contained in the feed for the animal?	☐	☒
We confirm that this product complies with regulations EC/1829/2003 and EC1831/2003 and keep non-GMO statement available.	☒	☐

5. Allergen Declaration

We have carefully reviewed this product according to EU Regulation 1169/2011 and modifications and confirm the following:

	Direct incorporation as a base raw material or in a derivative form (don't forget the carriers, the additives, and the processing aids)		CROSS CONTAMINATION					
			Presence on the production line		Presence on the production workshop		Presence on the production factory	
	Yes (Precise nature)	No	Yes (precise the nature)	No	Yes (precise the nature)	No	Yes (precise the nature)	No
Cereals containing gluten (1) and products thereof		N		N		N		N
Crustaceans and products thereof		N		N		N		N
Eggs and products thereof		N		N		N		N
Fish and products thereof (2)		N		N		N		N
Peanuts and products		N		N		N		N

thereof								
Soybeans and products thereof (3)		N		N		N		N
Milk and products thereof (including lactose) (4)		N		N		N		N
Nuts (5) or products thereof		N		N		N		N
Celery and products thereof		N		N		N		N
Mustard and products thereof		N		N		N		N
Sesame seeds and product thereof		N		N		N		N
Sulphur dioxide and sulphites at concentrations of more than 10mg/kg or 10 mg/l expressed as SO ₂		N		N		N		N
Lupines and products thereof		N		N		N		N
Mollusc and product thereof		N		N		N		N
Cereals which contain gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) except: wheat-based glucose syrups including dextrose, wheat-based maltodextrins, glucose syrups based on barley, cereals used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages; Except: fish gelatine used as carrier for vitamin or carotenoid preparations, fish gelatine or Isinglass used as fining agent in beer and wine. Except fully refined soybean oil and fat, natural mixed tocopherols (E306), natural D-alpha tocopherol, natural D-alpha tocopherol acetate, natural D-alpha tocopherol succinate from soybean sources; vegetable oils derived phytosterols and phytosterol esters from soybean sources; plant stanol ester produced from vegetable oil sterols from soybean sources. Except when used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages, lactitol. Almond (<i>Amygdalus communis</i> L.) hazelnuts (<i>Corylus avellana</i>), walnut (<i>Juglans regia</i>), cashew (<i>Anacardium occidentale</i>), pecan nuts (<i>Carya illinoensis</i>), Brazil nut (<i>Bertholletia excelsa</i>), pistachio nut (<i>Pistacia vera</i>), macadamia nut and Queensland nut (<i>Macadamia terniflora</i>) and products thereof, except nuts used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages;								

6. Non-Irradiation

(According to EU directive 1999/2/EC & 1999/3/EC)

This product has not been treated with ionising radiation

☐ YES

☒ NO, not treated



None of the raw materials we used for this product have been treated with ionising radiation.	☐ YES	☒ NO, not treated
We confirm above non-Irradiation statement is available	☒ YES	

7. Nanomaterial (According to EU Regulation (EU) No. 1363/2013)		
This product does not contain any nanomaterials as defined in EU food legislation	☐ YES	☒ NO, does not contain
This product has not been made with nanotechnology	☐ YES	☒ NO, is not made with nanotechnology
We confirm above non-Nanomaterial statement is available	☒ YES	

8. Residual Solvents (According to UE Directive 2009/32 modified by (UE)2010/59; EP5.4; USP476; ICH Q3C(R7))		
For this product following solvents are used during production process: Solvent A: max residual level:	☒ solvent used. ☐ solvent not used	
We confirm solvent residual of this product complies with:	☒ EP 7.0 ☒ USP <476> ☒ CH Q3C(R7) ☒ Directive 2010/59/EU ☐ NA	
We confirm Solvent residual statement is available	☒ YES	

9. Pesticide Residual (According to EC 396/2005; EP07; USP <561>)		
This product is of vegetable origin	☒ YES ☐ NO	
We confirm pesticide residual of this product complies with:	☒ EC 396/2005 ☒ EP 07/2008 ☒ USP<561> ☐ N/A	
Pesticide residual statement available	☒ YES	

10. BSE/TSE Information

(According to EU No. 2019/319; EP general chapter 5.2.8)

Cattle, sheep, goats, and other animals naturally susceptible to infection with transmissible spongiform encephalopathy (TSE) agents, or those susceptible to infection through the oral route (excluding humans and non-human primates), are defined as "BSE-relevant animal species." Pigs and birds, however, are not naturally susceptible to infection via the oral route and, therefore, are not considered TSE-relevant species. Similarly, dogs, rabbits, and fish are also not classified as TSE-relevant animal species.

The product contains no ingredients of ruminant origin and no materials derived from or exposed to ruminants affected by or under quarantine for Transmitting Transmissible Spongiform Encephalopathy (TSE) / Bovine Spongiform Encephalopathy (BSE).

☐ YES

☒ NO

☐ NA

In the manufacturing of this product, there is not any raw or source material and /or reagent used that is of animal origin i.e., bovine, serum-albumin, enzymes, culture broths including those used to prepare working or master cell tanks.

☐ YES

☒ NO

Equipment/systems/tools use for processing or storage of the material do not come into contact at any time with materials of animal origin (e.g., components of media filler used to check such system).

☐ YES

☒ NO

The material is not purified by using solvents, chromatographic media or buffers that contain components of animal origin.

☐ YES

☒ NO

We confirm this product complies with:

☒ EU legislation 999/2001
& ☒ EP general chapter
5.2.8

We confirm BSE/TSE statement is available

☒ YES

11. Contaminants Information

(According to UE regulation NO.1881/2006 and NO.629/2008 as regards maximum levels for certain contaminants in foodstuff)

Aflatoxin B1 <5ppb
Aflatoxins B1 + B2 + G1 + G2 <10ppb
Ochratoxin A <15ppb

☒ YES

☐ NO

☐ NA



Melamine Free	☒ YES
Dioxins, Furans, Polychlorinated Biphenyls Free	☒ YES
For polycyclic aromatic hydrocarbons, in cocoa fiber, banana chips, food supplements and their preparations, dried herbs <i>and dried spices</i> . Maximum level of 10 µg/kg of benzo(a)pyrene 50 µg/kg for the sum of PAH4 (PAH4; benzo[a]pyrene, chrysene, Benz[a]anthracene and benzo[b]fluoranthene) in food supplements	☒ YES ☐ NO ☐ NA
We confirm this product complies with NO.1881/2006 and NO.629/2008 and keep compliance statement available	☒ YES

12. WADA Statement

We confirm that none of the products manufactured or stored within our facility contain any prohormones, stimulants, steroids, or other substances listed on the current WADA (World Anti - Doping Agency) list.

13. ETO Free Statement

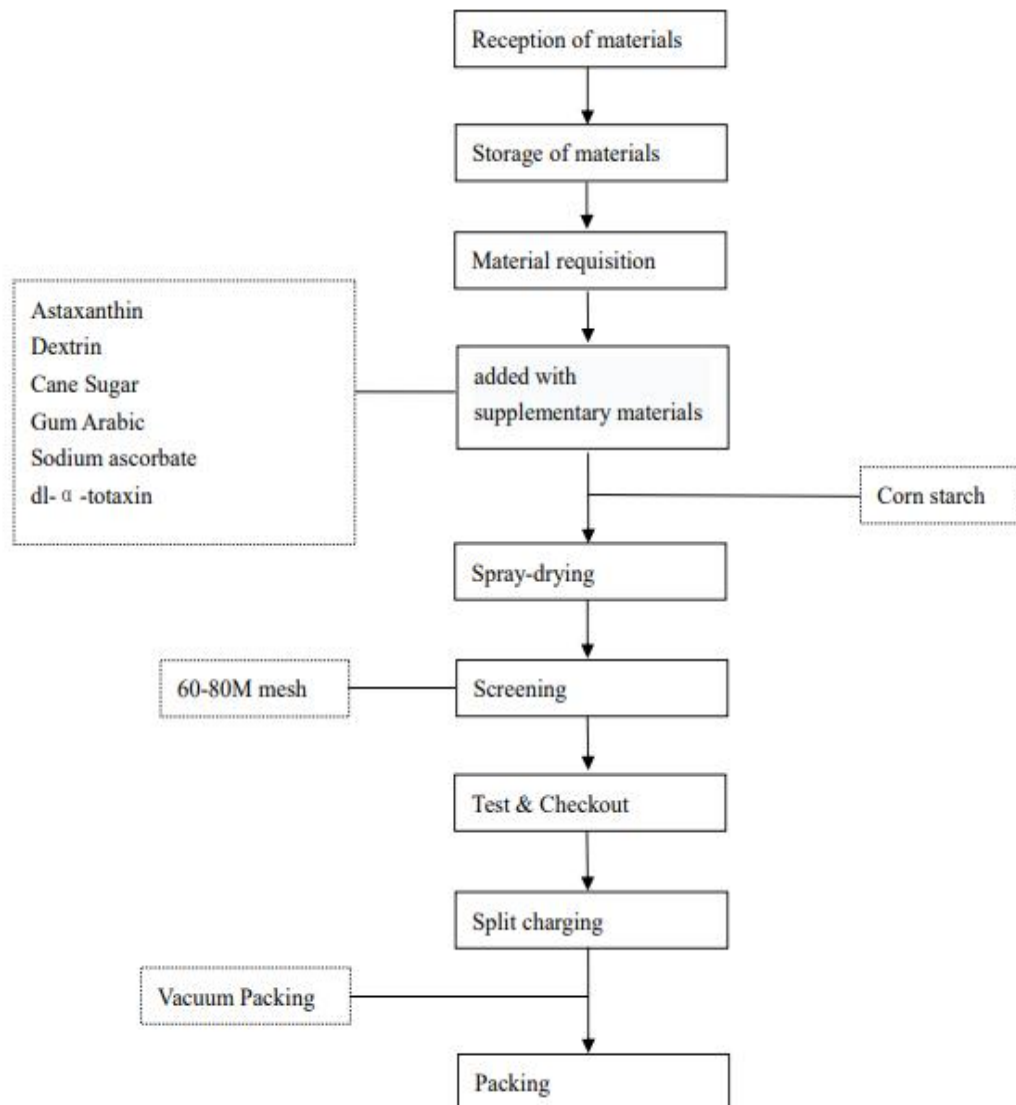
We hereby confirm that ethylene oxide (ETO), 2-chloroethanol, or any other chemical sterilizing agents are not used during the manufacturing, storage, or transportation of our products.

14. Other Statements

We confirm Nitrates of this product complies with EU No 1258/2011	☒ YES ☐ NO ☐ NA
We confirm Mycotoxins / Aflatoxins of this product complies with EU No 165/2010	☒ YES ☐ NO ☐ NA
We confirm 3-MCPD of this product complies with EU No. 2020/1322	☒ YES ☐ NO ☐ NA
We confirm Pyrrolizidine alkaloids of this product complies with Regulation (EU) 2020/2040	☒ YES ☐ NO ☐ NA

Flow Chart

Liposomal Astaxanthin



Material Safety Data Sheet (MSDS)

Section 1 - Product Identification

Product Identification: Liposomal Astaxanthin

CAS Number: 472-61-7

Molecular Weight: 596.84

Section 2 - Hazards Identification

Classification of the substance or mixture: No data available

GHS label elements, including precautionary statements

Pictogram(s): No data available

Signal word: No data available

Hazard statement(s): No data available

Precautionary statement(s)

Prevention: No data available

Response: No data available

Storage: No data available

Disposal: No data available

Other hazards which do not result in classification: No data available

Section 3. INFORMATION ON INGREDIENTS

Molecular weight : 596.84 g/mol

Molecular formula: $C_{40}H_{52}O_4$

CAS-No. : 472-61-7

No components need to be disclosed according to the applicable regulations.

Section 4. FIRST AID MEASURES

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist to consult with doctor.

Section 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, carbon dioxide or alcohol-resistant foam.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid dust formation. Avoid breathing mist, gas or vapour. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions: Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

Methods for cleaning up: Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Section 7. HANDLING AND STORAGE

Handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

Storage

Store in a well-closed and dry place with room temperature and no direct sun light.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls: Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Setup emergency exits and the risk-elimination area.

Hand protection: Wear suitable gloves.

Eye protection: Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection: Wear fire/flammable resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection: If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance

Physical state: solid

Form: powder

Colour: Pink color powder

Odour: Characteristic

Water solubility: No Soluble

Section 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: No data available

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

Incompatible materials: No data available

Hazardous decomposition products: No data available

Section 11. TOXICOLOGICAL INFORMATION

Not toxic.

Section 12. ECOLOGICAL INFORMATION

Material is non toxic & biodegradable, no ecological effects

Section 13. DISPOSAL CONSIDERATIONS

Product Disposal: The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Packaging Disposal: Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

Section 14. TRANSPORT INFORMATION

IATA Not dangerous goods

IMDG Not dangerous goods

ADR Not dangerous goods

RID Not dangerous goods

DOT Not dangerous goods

TDG Not dangerous goods

Section 15. Regulatory Information

OSHA: This product is not classified into any OSHA Hazard categories.

TSCA Status: All components are lists on the TSCA inventory.

CERCLA: Spills are not subject to special reporting by Cercla.

RCRA: Not specified

SARA Title III: This product is not classified into any SARA categories.

State Regulatory Information: Not specified.

International Regulatory Information: Not Known.

Section 16. OTHER INFORMATION

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances .This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.