



Technical Data Sheet

Product Name: Phosphatidylserine 50% (Soy)

Product Code: EZ891262b

1. Technical Data Sheet		
Chemical Name	Phosphatidylserine	
CAS Number	84776-79-4	
Molecular Formula	C ₄₂ H ₈₂ NO ₁₀ P	
Molecular Weight	792.1 g/mol	
Compliance (Food / Pharmacopoeia / FCC / Feed)	Food	
Brief Introduction:		
Phosphatidylserine is a fatty substance called a phospholipid. It covers and protects the cells in your brain and carries messages between them. Phosphatidylserine plays an important role in keeping your mind and memory sharp. Animal studies suggest that the level of this substance in the brain decreases with age.		
Item	Standard	Analysis Method
Appearance	Fine yellow powder	Visual
Odor &Taste	Characteristic	Organoleptic
Identification	Same wth standard	HPLC
Phosphatidylserine	≥50%	HPLC
Phosphatidylethanolamine	≤10%	HPLC
Phosphatidylinositol	≤10%	HPLC
Phosphatidylcholine	≤12%	HPLC
Peroxide value	≤10mmol/KG	GB
Acetone Insolubles	≥95%	CP
Residual solvent(Hexane)	≤25ppm	GC
Peroxide value	≤5mmol/KG	GB
Loss on Drying	≤2.0%	GB
Heavy metals		
Total Heavy Metals	≤20 ppm	ICP-MS
Lead	≤3.0 ppm	ICP-MS
Arsenic	≤1.0 ppm	ICP-MS
Cadmium	≤1.0 ppm	ICP-MS
Mercury	≤0.1 ppm	ICP-MS
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:	Soy Extract	
	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)	Soybeans			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
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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> ☒ ICH 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.

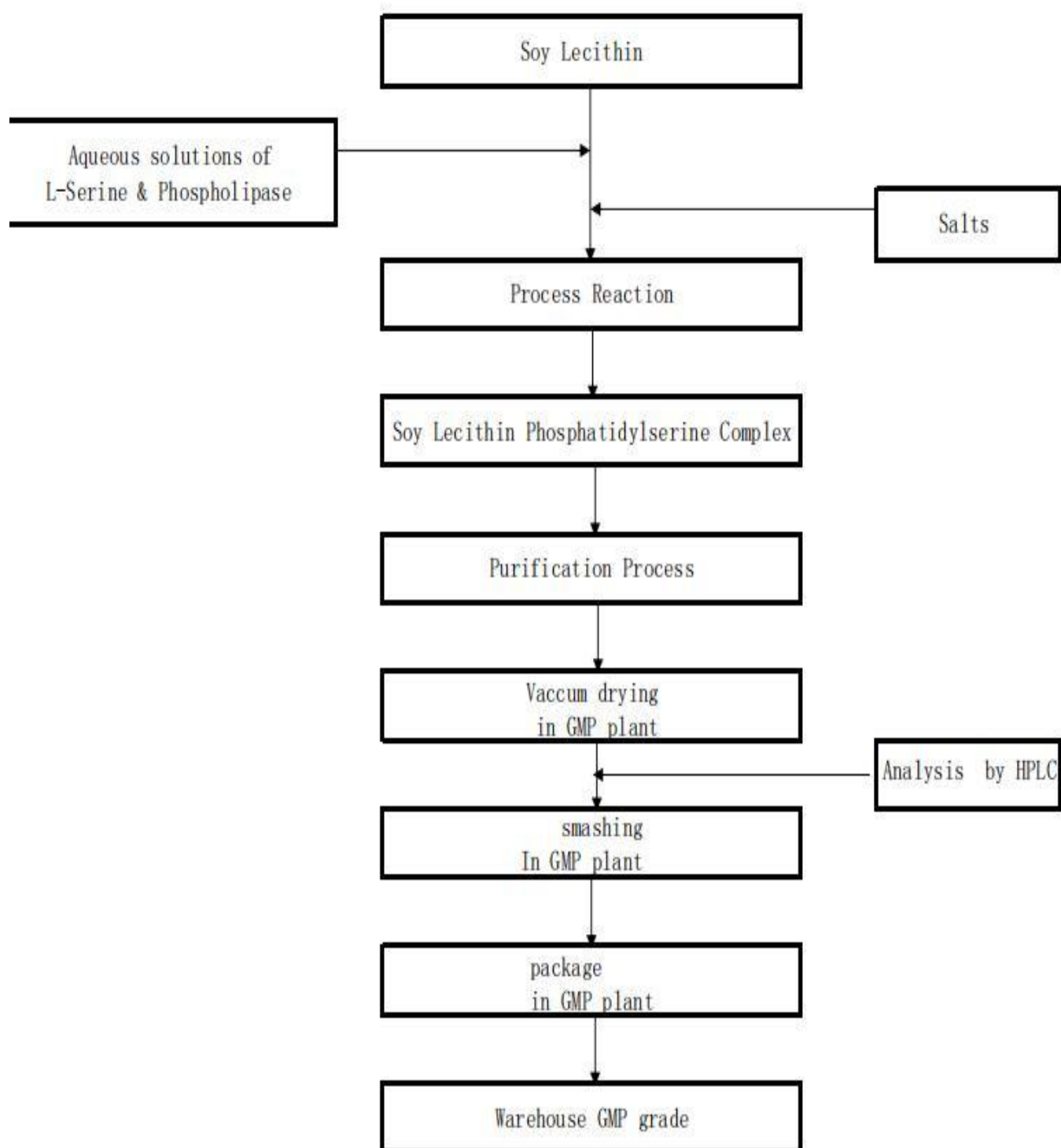
14. Other Statements

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 of Phosphatidylserine 50% (Soy)

Brief process of phosphatidylserine





Material Safety Data Sheet (MSDS)

Section 1 - Product Identification

Product Identification: Phosphatidylserine 50% (Soy)

CAS Number: 84776-79-4

Molecular Weight: 792.1

Section 2 - Hazards Identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Labelling according to EC Directives REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

67/548/EEC / 1999/45/EC:

According to present data no classification and labelling is required according to Directives 67/548/EEC or 1999/45/EC.

Additional advice: Handle in accordance with good industrial hygiene and safety practice.

Section 3. INFORMATION ON INGREDIENTS

Extracted from soy lecithin ,CAS#84776-79-4

Section 4. FIRST AID MEASURES

Skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin irritation persists, call a physician.

Eye contact: Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.



Ingestion: If swallowed, do not induce vomiting - seek medical advice. Immediately give large quantities of water to drink. Never give anything by mouth to an unconscious person.

Section 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO₂), Alcohol-resistant foam
Unsuitable extinguishing media : Water

Specific hazards during fire fighting: Heating or fire can release toxic gas.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Use water spray to cool unopened containers.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Environmental precautions: Prevent product from entering drains.

Methods for cleaning up: Use mechanical handling equipment. After cleaning, flush away traces with water.

Additional advice: Forms slippery/greasy layers with water.

Section 7. HANDLING AND STORAGE

Handling

Advice on safe handling: No special precautions required.

Advice on protection against fire and explosion: Avoid dust formation. Take precautionary measures against static discharges.

Storage

Requirements for storage areas and containers: Keep tightly closed in a dry and cool place. To maintain product quality, do not store in heat or direct sunlight.

Further information on storage conditions: Storage temperature: 10-25°C .

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment Respiratory protection: No personal respiratory protective equipment normally required.



Hand protection: Wear suitable gloves.

Eye protection: Chemical resistant goggles must be worn.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls General advice: Prevent product from entering drains.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance

Physical state: solid

Form: powder

Colour: fine yellow

Odour: Characteristic

Water solubility: not soluble

Ignition temperature: not tested assumed

Section 10. STABILITY AND REACTIVITY

Hazardous decomposition products: no data available

Hazardous reaction: None known.

Section 11. TOXICOLOGICAL INFORMATION

Not toxic.

Section 12. ECOLOGICAL INFORMATION

Material is non toxic & biodegradable, no ecological effects

Section 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Dispose of in accordance with local regulations.

Contact waste disposal services.



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

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment not required.

Section 16. OTHER INFORMATION

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%



Disclaimer: 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.

