



SmartHerb

Innovating Botanical Health

Address: Chengnan Road, Huaxi Subdistrict, Changxing
County, Huzhou City, Zhejiang Province, 313100, China

Technical Data Sheet

Technical Data Sheet			
Product name	Lipo-vida™ Liposome Creatine monohydrate	Trade Brand	SmartHerb
AC Code	SH26090901a	CAS number	6020-87-7
Molecular formula	C ₄ H ₁₁ N ₃ O ₃	Molecular weight	149.15
Item	Standard		Method of analysis
Appearance	White to pale yellow powder		Visual
Particle size	95% pass 200 mesh		Sieving
Assay	≥ 70%		HPLC
Loss on drying	≤ 5.0%		Ph. Eur. 2.2.32
Ash	≤ 5.0%		Ph. Eur. 2.4.16
Entrapment rate	≥ 80%		CP2020 <9014>
Bulk density	≥ 40 g/100 ml		CP2020 <0993>
Tap density	≥ 50 g/100 ml		CP2020 <0993>
Cyanide	≤ 1.0 mg/kg		Colorimetry
Creatinine	≤ 100 mg/kg		HPLC
Dicyanamide	≤ 50 mg/kg		HPLC
Dihydrotriazine	≤ 5.0 mg/kg		HPLC
Heavy metals			
Lead (Pb)	< 3.0 ppm		ICP-MS
Cadmium (Cd)	< 1.0 ppm		ICP-MS
Mercury (Hg)	< 0.1 ppm		ICP-MS
Arsenic (As)	< 1.0 ppm		ICP-MS
Microorganism			
Total Bacterial Count	≤ 1000 cfu/g		Ph. Eur. 2.6.12
Total Yeast and Mold Count	< 100 cfu/g		Ph. Eur. 2.6.12
Salmonella（10g）	Negative		Ph. Eur. 2.6.13
E. Coli（1g）	Negative		Ph. Eur. 2.6.13
Staphylococcus aureus（1g）	Negative		Ph. Eur. 2.6.13
Package	25 kg/bag		
Shelf life	24 months		
Storage	Store in a cool, dry place; keep away from strong light and heat.		

INGREDIENTS

An ingredient is defined in Directive 2000/13/EC on labelling: "ingredient means any substance including additives, used in



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the production or preparation of a foodstuff and still present in the finished product although possibly in a modified form".i.e all raw materials to produce the goods.

Please list all ingredients:

Ingredients/material composition	%	Country of origin
Liposome Creatine monohydrate	100%	China

ORIGIN

Country of origin of the product: China			
Is a manufacturing process available		☒ YES	☐ NO
Source of the product:		☐ Animal ☒ Synthetic	☐ Plant ☐ Mineral origin ☐ Biotechnological processing
please answer the following questions			
Ingredient Name: Liposome Creatine monohydrate			
Starting material	Creatine monohydrate	Origin	China

GENETICALLY MODIFIED ORGANISMS-GMO

According to EU regulations EC/1829/2003 & EC/1830/2003

According to the EU regulations concerning the traceability and labelling of Genetically Modified Organisms(GMO),and the traceability of food products produced from GMO, we confirm that the product:		
Contains ingredient(s)from Maize and/or Soya origin	☐ YES	☒ NO
Contains no material which contains,consists of or is produced from authorized GMOs in proportion higher than 0,9%.This presence is adventitious or technically unavoidable	☒ YES	☐ NO
is GMO or contains or consists of GMOs	☐ YES	☒ NO
is produced from GMOs or contains ingredients produced from GMOs	☐ YES	☒ NO
Contains ingredient(s)from other potential GMO-risk raw material(s)(rice,beet cotton ...)	☐ YES	☒ NO
If Yes,please specify: o ingredient: o vegetable origin: o geographic origin:		
Contains no material which contains,consists of or is produced from evaluated GMOs in proportion higher than 0,5%.This presence is adventitious or technically unavoidable	☒ YES	☐ NO
For information about processing aids, is produced or contains ingredient(s)produced with GMOs or Genetically Modified Microorganisms processing aids (bacteria,yeast...or derived from GMOs or GMMs(including enzymes)	☐ YES	☒ NO
If yes,please specify:		
We confirm that the ingredient supplied is compliant in all respects with the Regulations N°1829/2003/EC and N°1830/2003/EC where applicable	☒ YES	☐ NO



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SUBSTANCES OR PRODUCTS CAUSING ALLERGIES OR INTOLERANCES

According to Regulation(EU)No.1169/2011 as regards of ingredients present in foodstuffs

Allergenic substances (Regulation EU 1169/2011 – Annex II)	Present in finished product	Present in the manufacturing site	Present on the same manufacturing line	Possible cross-contamination
Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains)	NO	NO	NO	NO
Crustaceans and products thereof	NO	NO	NO	NO
Eggs and products thereof	NO	NO	NO	NO
Fish and shellfish-derived products (including gelatine)	NO	NO	NO	NO
Peanuts and products thereof	NO	NO	NO	NO
Soybeans and products thereof (including lecithin)	NO	NO	NO	NO
Milk and products thereof (including lactose)	NO	NO	NO	NO
Nuts (almond, hazelnut, walnut, cashew, pecan nut, Brazil nut, pistachio nut, macadamia nut, Macadamia Nut (including oil), Pine nuts (including oil))	NO	NO	NO	NO
Celery and products thereof	NO	NO	NO	NO
Mustard and products thereof	NO	NO	NO	NO
Sesame seeds and products thereof	NO	NO	NO	NO
Sulphur dioxide and sulphites (>10 mg/kg or 10 mg/L expressed as SO ₂)	NO	NO	NO	NO
Lupin and products thereof	NO	NO	NO	NO
Molluscs and products thereof	NO	NO	NO	NO
Buckwheat and products thereof	NO	NO	NO	NO
Cashew nutshell (including oil)	NO	NO	NO	NO
Bee pollen, propolis, royal jelly and products thereof	NO	NO	NO	NO
Latex	NO	NO	NO	NO
Lupines (lat. Lupinus) and products thereof	NO	NO	NO	NO
Peach (including oil)	NO	NO	NO	NO
Mango (including oil)	NO	NO	NO	NO
Pork and products thereof	NO	NO	NO	NO
Shellfish and similar products	NO	NO	NO	NO
Tomato and products thereof	NO	NO	NO	NO

NON IRRADIATION

According to UE Directive No.1999/2/CE

Has this raw material or one of its ingredients been irradiated or ionised	☐ YES	☒ NO
We confirm above non-irradiation statement is available	☒ YES	



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NANOMATERIAL

According to Regulation(EU)No 1169/2011

Does this raw material contain or can be considered as engineered nanomaterial	☐ YES	☒ NO
Does this raw material have been made with nanotechnology?	☐ YES	☒ NO
Does the product contain nanotechnology as defined by the French decree no.2012-232?	☐ YES	☒ NO

WADA Anti-Doping Statement

Current WADA Prohibited List

Does the product contain any prohibited substances (hormones, anabolic agents, stimulants) listed on WADA Prohibited List?	☐ YES	☒ NO
Is there any risk of cross-contamination with WADA banned substances during production?	☐ YES	☒ NO

FOOD CERTIFICATE

Manufacturer's quality certificates:

ISO 9001 ☐	HACCP ☐	ISO 14001 ☐	ISO 22000 ☐	☒ OTHER
Is the raw material Food Grade?	☒ YES	☐ NO		
Can the product be used in baby food(Regulation 2016/127/CE)?	☐ YES	☒ NO		
Does the product comply with the UE Regulation No231/2012 about additives?	☒ YES	☐ NO		
Is the product complying with a Pharmacopeia monography?	☒ YES	☐ NO		
Is the product complying with the UE Regulation No.1334/2008 about flavourings?	☐ YES	☒ NO		
Was the product used in the European food industry before May 1997?	☒ YES	☐ NO		
If no,could you provide an authorisation (according to Regulation 2015/2283/EC)?	☐ YES	☐ NO		
Are stability studies available?	☒ YES	☐ NO		

CONTAMINANTS

Is the product conforming to UE regulations No 2023/915 setting maximum levels for certain contaminants in foodstuffs,as amended?		☒ YES	☐ NO
Contaminants	Tested?	Result	
Pesticides (multi-residue)?	Can be provide if need	Complies with EU 396/2005	
Dioxins and dioxin like PCBs?	Can be provide if need	Complies with EU 915/2023	
Heavy metals	Can be provide if need	Complies (≤10 ppm)	
PAHs(PAH4)	Can be provide if need	Complies with EU 915/2023	
Benzo[a]pyrens?	Can be provide if need	Complies with EU 915/2023	
Mycotoxins (Aflatoxins, OTA)	Can be provide if need	Complies with EU 915/2023	
3-MCPD	NO	Not applicable	
Doping like substances? http://list.wada-ama.org/	NO	Not applicable	



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NUTRITIONAL VALUES

Nutritional Composition	☐ Per 100g	☐ Per serving
Energy(kJ/kcal)	670kJ	
Total Fat(g)	14	
Total Carbohydrate(g)	2	
Fibre(g)	0	
Protein(g)	0	
Salt(g)	0	
Vitamins:	0	
Minerals:	0	
Remarks: Nutrition Data are obtained by 3 rd party lab; tested on a yearly basis		

Safety Data Sheet (SDS)

Section 1 Identification of Substance			
Product Name	Liposome Creatine monohydrate	CAS No.	6020-87-7
Molecular Formula	C ₄ H ₁₁ N ₃ O ₃	Molecular Weight	149.15
Supplier / trade brand	SmartHerb	Address	No.76-3 Chengnan Road, Huaxi Sub-district, Changxing County, Huzhou City, Zhejiang Province, 313100, China
Section 2 Hazards Identification 2.1 Classification: Not expected to be classified as hazardous under normal food-grade handling; final CLP classification to be confirmed for the finished mixture. 2.2 Label elements: No hazard pictogram or signal word expected for the food-grade mixture. Avoid generating or inhaling dust. 2.3 Other hazards: Airborne powder may cause mechanical irritation to eyes, skin or respiratory tract. Dust accumulation should be minimized.			
Section 3 Composition, Information on Ingredients 3.1 Product type: Liposomal creatine monohydrate powder; formulated mixture. 3.2 Active ingredient: Creatine monohydrate, CAS 6020-87-7. 3.3 Carrier: Phospholipid/lecithin system and possible processing aids.			
Section 4 First Aid Measures 4.1 Inhalation: Move to fresh air. Seek medical attention if irritation or symptoms persist. 4.2 Skin/Eye contact: Rinse skin with water. Flush eyes gently with clean water for at least 15 minutes; remove contact lenses if easy to do. 4.3 Ingestion: Food-grade material; rinse mouth and drink water. Obtain medical advice if large accidental exposure causes discomfort.			
Section 5 Fire-Fighting Measures 5.1 Suitable media: Water spray, dry chemical, foam or CO₂, selected according to surrounding fire. 5.2 Specific hazards: Combustion may generate carbon oxides and nitrogen oxides. Fine organic powder may present a dust-combustion risk at high airborne concentration.			



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5.3 Firefighter protection: Use appropriate protective equipment and self-contained breathing apparatus in a significant fire.

Section 6 Accidental Release Measures

6.1 Personal precautions: Avoid dust generation and inhalation; use suitable PPE. Provide ventilation.

6.2 Environmental precautions: Prevent large quantities from entering drains or surface water.

6.3 Cleanup: Collect by vacuum or gentle sweeping into a suitable container. Avoid dry sweeping that creates excessive dust.

Section 7 Handling and Storage

7.1 Handling: Handle hygienically, minimize dust, keep containers closed and avoid contact with strong oxidizing agents.

7.2 Storage: Store in a cool, dry place, protected from strong light, heat and moisture; keep package tightly closed.

7.3 Specific use: Ingredient for food/dietary supplement applications, subject to applicable local regulatory requirements.

Section 8 Exposure Controls/Personal Protection

8.1 Exposure limits: No product-specific occupational exposure limit established; control nuisance dust according to local requirements.

8.2 Engineering controls: Local exhaust/adequate ventilation where dust is generated.

8.3 PPE: Safety glasses, protective gloves and suitable particulate mask/respirator when dust exposure is significant.

Section 9 Physical and Chemical Properties

9.1 Appearance/Odor: White to pale yellow powder; characteristic odor and taste.

9.2 Other properties: Loss on drying $\leq 5.0\%$; particle size 95% pass 200 mesh; bulk/tap density per product specification.

Section 10 Stability and Reactivity

10.1 Stability: Stable under recommended storage conditions.

10.2 Conditions to avoid: Excessive heat, moisture, strong light and dust-generating conditions.

10.3 Incompatible materials/decomposition: Avoid strong oxidizing agents. Thermal decomposition may generate carbon and nitrogen oxides.

Section 11 Toxicological Information

11.1 Likely routes: Inhalation of dust, eye/skin contact and ingestion.

11.2 Acute effects: Low acute hazard expected for normal food-grade use; dust may cause transient mechanical irritation.

11.3 Chronic/carcinogenic effects: No product-specific chronic toxicity data supplied for this formulated liposomal mixture; use according to intended food application.

Section 12 Ecological Information

12.1 Ecotoxicity: No product-specific ecotoxicity data available; significant environmental hazard is not expected from normal intended use.

12.2 Persistence/biodegradability: No finished-product data available. Constituents are expected to be organic/biodegradable to varying degrees.



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12.3 Bioaccumulation/mobility: No finished-product data available. Avoid uncontrolled release of bulk quantities.

Section 13 Disposal Considerations

13.1 Disposal: Dispose of unused material in accordance with local regulations; avoid discharge of bulk material to drains.

13.2 Packaging: Empty packaging may be recycled or disposed of where permitted after complete removal of residues.

13.3 Waste classification: Not expected to be hazardous waste solely on the basis of the supplied composition; local classification takes precedence.

Section 14 Transport Information

14.1 UN number/proper shipping name: Not regulated as dangerous goods based on available information.

14.2 Transport hazard class/packing group: Not applicable. Protect from moisture, heat and package damage during transport.

14.3 ADR/RID/IMDG/IATA: Not expected to be classified as dangerous goods; confirm final transport status for the commercial formulation.

Section 15 Regulatory Information

15.1 EU: Food use is subject to applicable EU food/supplement law; mixture classification should be reviewed under Regulation (EC) No 1272/2008 (CLP) where applicable.

15.2 Food-specific points: Compliance assessment should consider Regulation (EU) 2015/2283 (Novel Food) for the liposomal form/carrier and Regulation (EU) 1169/2011 where applicable.

15.3 Other: Supplier-specific GMO, allergen, nanomaterial, contaminant and certification declarations remain required.

Section 16 Other Information

16.1 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. shall not be held liable for any damage resulting from handling or from contact with the above product see reverse side of invoice or packing slip for additional terms and conditions of sale.



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Flow Chart

