

Technical Data Sheet

Product Name: Lipo Vita™ Liposome Creatine monohydrate

Trade Brand: Smart Herb

Technical Data Sheet			
Active Ingredient	Creatine Monohydrate	Lipid Carrier	Phospholipids
AC Code	SH07016	CAS number	N/A
Molecular formula	N/A	Molecular weight	N/A
Origin	China	Source	Chemical synthesis
Solvent Used	Water		
Item	Standard		Analysis Method
Appearance	White to pale yellow powder		Visual
Odor & Taste	Characteristic		Organoleptic
Typical Analysis			
Assay	≥80%		HPLC
Entrapment rate	≥90%		HPLC
Bulk Density	≥40g/100ml		Ph. Eur. 2.9.34
Tapped density	≥50g/100ml		Ph. Eur. 2.9.34
Loss on drying	≤5.0%		Ph. Eur. 2.2.32
Ash	≤5.0%		Ph. Eur. 2.4.16
Particle Size	95% Pass 200 Mesh		Sieve analysis
Cyanide	≤1.0mg/kg		Colorimetry
Creatinine	≤100mg/kg		HPLC
Dicyanamide	≤50mg/kg		HPLC
Dihydrotriazine	≤5.0mg/kg		HPLC
Residual solvents			
Water	N/A		N/A
Contaminants			
Triadimenol	N/A		EN 15662:2018
Chlorantraniliprole	N/A		EN 15662:2018
Indoxacarb	N/A		EN 15662:2018
Bifenthrin	N/A		EN 15662:2018
Benzo(a)pyrene	N/A		(EU) 915/2023
PAH4	N/A		(EU) 915/2023
Aflatoxin (Σ B1, B2, G1, G2)	N/A		Ph. Eur. 2.8.18
Aflatoxin B1	N/A		Ph. Eur. 2.8.18
Heavy metals			
Heavy metals	≤ 10ppm		ICP-MS
Lead (Pb)	≤ 0.5ppm		ICP-MS
Arsenic (As)	≤ 0.5ppm		ICP-MS
Cadmium (Cd)	≤ 1.0ppm		ICP-MS
Mercury (Hg)	≤ 0.1ppm		ICP-MS
Microorganism			
Total Bacterial Count	<1000cfu/g		Ph. Eur. 2.6.12
Total Molds Count	<100cfu/g		Ph. Eur. 2.6.12
Salmonella	Negative		Ph. Eur. 2.6.13

E. coli	Negative	Ph. Eur. 2.6.13
Staphylococcus aureus	Negative	Ph. Eur. 2.6.13
Package	N.W. 25Kgs/fiber drum and two plastic bags inside.	
Shelf life	24 months (Refer to Supplier TDS & Stability Data)	
Storage	In cool & dry place, keep away from strong light and heattion.	

INGREDIENTS

An ingredient is defined in Directive 2000/13/EC on labelling: "ingredient means any substance including additives, used in 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
Encapsulated Creatine Monohydrate	90%	China
Free Unencapsulated Creatine Monohydrate	10%	China

ORIGIN

Active Ingredient: Creatine Monohydrate							
Country of origin of the product:China							
Is a manufacturing process available		☒ YES			☐ NO		
Source of the product:		☐ Animal ☐ Plant ☐ Mineral origin ☒ Synthetic ☐ Biotechnological processing					
Lipid Carrier: Phospholipids							
Country of origin of the product:China							
Is a manufacturing process available		☒ YES			☐ NO		
Source of the product:		☐ Animal ☒ Plant ☐ Mineral origin ☐ Synthetic ☐ Biotechnological processing					
If plant, please answer the following questions.							
Active Ingredient: Creatine Monohydrate				Lipid Carrier: Phospholipids			
Botanical name	N/A	Geographical origin	N/A	Botanical name	Helianthus annuus	Geographical origin	China
Harvest method	N/A	Harvest period	N/A	Harvest method	N/A	Harvest period	N/A
Part of the plant	N/A			Part of the plant	Seed		
Is the technical data sheet of the plant raw material available		☐ YES ☒ NO		Is the technical data sheet of the plant raw material available		☐ YES ☒ NO	
Are there any agents responsible for adverse effects		☐ YES ☒ NO		Are there any agents responsible for adverse effects		☐ YES ☒ NO	
If yes,please precise:		N/A		If yes,please precise:		N/A	
Please precise the methods of eliminating risk constituents:		N/A		Please precise the methods of eliminating risk constituents:		N/A	
Could you precise the treatments used on the plant harvesting?							



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Irrigation	Fertilizers	Herbicides	Insecticides	Fungicides	Other
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

If Synthetic, please answer the following questions.

Active Ingredient: Creatine Monohydrate				Lipid Carrier: Phospholipids			
Starting material:	Synthetic chemical precursors	Origin:	China	Starting material:	Sunflower seed	Origin:	China

Could you precise the treatments /transformations after harvest?			
☒ Decontaminated plant(treatment used:		☐ Undecontaminated plant	
☒ Washing	☒ Drying	☐ Natural drying:	☒ Artificial drying
Other: All post-harvest processes handled by material supplier			
If mineral origin, please specify species		N/A	
If synthetic, please specify species		N/A	

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

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 products thereof	NO	NO	NO	NO
Peanuts and products thereof	NO	NO	NO	NO
Soybeans and products thereof	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)	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

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	

NANOMATERIAL

According to Regulation(EU)No 1169/2011

Does this raw material contain or can be considered asengineered nanomaterial	☐ YES	☒ NO
Does this raw material have been made with nanotechnology?	☐ YES	☒ NO



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Does the product contain nanotechnology as defined by the French decree no.2012-232?	☐ YES	☒ NO
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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(Directive 2006/141/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 258/97/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	Can be provide if need	Complies with EU 915/2023	
Doping like substances? http://list.wada-ama.org/	NO	Not applicable	

FOREIGN BODIES

Which material do you use in order to fight against the foreign bodies			
	Presence?	Test frequency	Where is it located on the process line?
Magnet	Available upon request	Continuous	Raw material intake / processing line
Metal detector	Available upon request	Each batch	Before packaging
Sieve	Available upon request	Continuous	During processing



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

Filter	Available upon request	Continuous	Extraction / filtration stage
X-ray detection	NO	N/A	N/A
Other(please specify)	NO	N/A	N/A

NUTRITIONAL VALUES

Nutritional Composition	☒ Per 100g	☐ Per serving
Energy(kJ/kcal)	300kcal	
Total Fat(g)	22.0	
Total Carbohydrate(g)	18.5	
Fibre(g)	0	
Protein(g)	0	
Salt(g)	≤0.01	
Vitamins:	0	
Minerals:	No added minerals	
Remarks: Nutrition Data are obtained by 3 rd party lab; tested on a yearly basis		

TRACEABILITY

Batch size	500kg
Batch definition	A batch is defined as a homogeneous production lot produced under the same conditions
Signification of the batch number by an example	N/A
Marking method (labelling...)	N/A

PACKAGING

Is the packaging material approved as food grade according to regulations 1935/2004,10/2011 and 1282/2011?	☒ YES	☐ NO
Do you guarantee the packaging traceability according to regulation 1935/2004(art 17)?	☒ YES	☐ NO
Can you guarantee that the product and its packaging supplied to do not contain Phtalates?	☒ YES	☐ NO
Can you guarantee that the product and its packaging supplied to do not contain ITX? (A packaging contaminant:Isopropylthioxanthone(ITX)found in dairy products)	☒ YES	☐ NO
Can you guarantee that the product and its packaging supplied to do not contain BisphenolA(BPA)?	☒ YES	☐ NO
Do you add desiccant bags during packaging process? If so,where do you mention it:.....	☒ YES	☐ NO
Can you provide migration test in order to guarantee packaging safety?	☒ YES	☐ NO

Material Safety Data Sheet

Section 1 Identification of Substance

Product Name:	LipoVita Liposome Creatine monohydrate	CAS No.	N/A
Molecular Formula:	N/A	Molecular Weight:	N/A

Section 2 Hazards Identification

2.1 GHS classify: According to the provisions of the Globally Harmonized System (GHS), it is not a hazardous substance or mixture)

2.2 Dangerous components: No

Section 3 Composition, Information on Ingredients

Component	Ratio	CAS No.
Encapsulated Creatine Monohydrate	90%	/
Free Unencapsulated Creatine Monohydrate	10%	/

Description: White to pale yellow powder

Section 4 First Aid Measures

4.1 General information: Consult a doctor. Present this Safety Data Sheet to the doctor on - site.

4.2 After inha lation: Supply fresh air; consult doctor in case of complaints.

4.3After skin contact: Rinse with soap and plenty of water. Consult a doctor.

4.4 After eye contact: Flush thoroughly with plenty of water for at least 15 minutes and consult a doctor.

Section 5 Fire-Fighting Measures

5.1 Suitable extinguishing agents: Extinguish fires using water mist, alcohol - resistant foam, dry powder, or carbon dioxide.

5.2 Protective equipment: If necessary, wear a self - contained breathing apparatus to fight fires.

Section 6 Accidental Release Measures

6.1 Do not allow the product to enter the sewer.

6.2Measures for cleaning/collection: Pick up mechanically avoiding causing a stir.

Section 7 Handling and Storage

7.1 Information for safe handling: Avoid contact with skin and eyes.

7.2 Information about protection against explosions and firms: Provide appropriate exhaust ventilation equipment in areas where dust is generated. Implement general fire - prevention measures.

7.3 Storage: Keep in a cool and dry place, away from light and heat.

7.4 Metal containers are not used.

7.5 Informati on about storage in one common storage facility: Not required.

7.6 Further in formation about storage conditions: None.

7.7 Storage class: No special requirement.

Section 8 Exposure Controls/Personal Protection

8.1 Personal protective equipment: Impermeable clothing

8.2 Breathing equipment: Particulate - filtering respirator.

8.3 Protection of hands: Gloves.

8.4 Eye protection: Safety glasses with side shields

Section 9 Physical and Chemical Properties

9.1 Appearance:White to pale yellow powder

Section 10 Stability and Reactivity

10.1 Thermal decomposition /conditions to be avoided: No decomposition if used according to specifications.

10.2 Dangerous reactions: No dangerous reactions known

10.3 Dangerous products of decomposition: No data available.

Section 11 Toxicological Information

11.1 Acute toxicity: No data available

11.2 Primary irritant effect: No data available

11.3 On the skin: No data available

11.4 The inhalation of powder can irritate the respiratory tract.

11.5 Eye irritation: No data available

11.6 Sensitization: No sensitizing effects known.

11.7 Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Section 12 Ecological Information

12.1 General notes: No data available.

Section 13 Disposal Considerations

13.1 Water/residue: Waste water treatment plant , Regular disposal.

13.2 Package: Disposal in compliance with official regulation.

Section 14 Transport Information

14.1 RID/ADR (European) Non-Dangerous Goods

14.2 IMDG CODE: Non-Dangerous Goods

14.3 ICAO/ IATA : Non-Dangerous Goods

Section 15 Regulatory Informatio

15.1 List of Hazardous Chemicals: Nient comprise

15.2 List of Highly Explosive and Hazardous Chemicals: Nient comprise

Section 16 Other Information

16.1 DISCLAIMER: The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. But, to provide the data we didn't express or implied. This product processing, storage and use or disposal condition and method that we can not control or beyond the scope of our knowledge. In any case, we are not responsible for handling, storage, improper use or disposal of chemical caused losses, damages or expenses. The material safety data sheet is made according to the product, and only applied in this product. If this product is used for another product components, the material safety data sheet shall not apply.



Flow Chart

