

Technical Data Sheet

Product Name: Micro-Vita Vega BCAA (2:1:1) 1000mesh

Trade Brand: SmartHerb

Technical Data Sheet			
AC Code	SH07023	CAS number	N/A
Molecular formula	N/A	Molecular weight	N/A
Origin	China	Source	Biotechnological processing
Solvent Used	N/A		
Item	Standard	Analysis Method	
Appearance	White to off-white fine powder		Visual
Typical Analysis			
Assay（Titration）	≥95.0 %		Titration
Sunflower Lecithin	0.5%～1.0%		Formulation calculation
L-Leucine Content(HPLC)	45.0～55.0%		HPLC
L-Isoleucine Content(HPLC)	22.5～27.5%		HPLC
L-Valine Content(HPLC)	22.5～27.5%		HPLC
Bulk Density	≥0.35g/ml		Measuring cylinder
Tapped Density	≥0.50g/ml		Measuring cylinder
Loss on drying	≤0.8%		Ph. Eur. 2.2.32
Residue on Ignition	≤1.0 %		Gravimetric
Particle Size	≥98% through 1000 Mesh		Sieving
Heavy metals			
Heavy metals	≤10mg/kg		ICP-MS
Lead (Pb)	≤3.0mg/kg		ICP-MS
Arsenic (As)	≤1.0mg/kg		ICP-MS
Cadmium (Cd)	≤1.0mg/kg		ICP-MS
Microorganism			
Total Bacterial Count	≤1000 CFU/g		Ph. Eur. 2.6.12
Total Yeast and Mould Count	≤100 CFU/g		Ph. Eur. 2.6.12
Salmonella	Negative		Ph. Eur. 2.6.13
E. coli	Negative		Ph. Eur. 2.6.13
Package	N.W. 25Kgs/fiber drum and two plastic bags inside.		
Shelf life	It is recommended to use the entire contents after opening. The product will be stable for at least three years after manufacture in the original unopened package.		
Storage	Store in a cool, dry area and not in direct sunlight. The preferred storage temperature should not exceed 0℃～40℃.		

INGREDIENTS

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
L-Leucine	50%	China
L-Isoleucine	25%	China
L-Valine	25%	China

ORIGIN

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	
please answer the following questions.			
Catalysis By Enzymes			
Name Of Enzyme:	N/A	Sources Of Enzymes:	N/A
Fermentation			
Source: Microbial fermentation for individual BCAA monomers (L-Leucine, L-Isoleucine, L-Valine), followed by blending to 2:1:1 ratio			

Could you precise the treatments /transformations after harvest?			
☐ Decontaminated plant(treatment used:		☐ Undecontaminated plant	
☐ Washing	☐ Drying	☐ Natural drying:	☐ Artificial drying
Other: Amino acid monomers are fermented, then filtered, decolorized, crystallized, centrifuged, dried, micronized, blended and sieved into final powder. No plant materials used.			
If mineral origin, please specify species		N/A	
If syntheric, 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
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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
Does the product contain nanotechnology as defined by the French decree no.2012-232?	☐ YES	☒ NO

RESIDUAL SOLVENTS

According to UE Directive 2009/32 modified by (UE)2010/59 and CPMP/ICH/283/95Q3C

Does the raw material contain any residual solvent	☐ YES	☒ NO
If yes,please give: percentage and name of each solvent used: level of residual solvents:		
Is the product in compliance with the UE Directive 2009/32	☒ YES	☐ NO
Is the product in compliance with the ICH guidelines	☒ 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(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	☐ YES	☐ NO		



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County, Huzhou City, Zhejiang Province, 313100, China

Regulation 258/97/EC)?		
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)?	YES	Complies with EU 396/2005	
Dioxins and dioxin like PCBs?	YES	Complies with EU 915/2023	
Heavy metals	YES	Complies (≤ 10 ppm)	
PAHs(PAH4)	YES	Complies with EU 915/2023	
Benzo[a]pyrens?	YES	Complies with EU 915/2023	
Mycotoxins (Aflatoxins, OTA)	YES	Complies with EU 915/2023	
3-MCPD	NO	Not applicable	
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	YES	Continuous	Raw material intake / processing line
Metal detector	YES	Each batch	Before packaging
Sieve	YES	Continuous	During processing
Filter	YES	Continuous	Extraction / filtration stage
X-ray detection	NO	Not applicable	Not applicable
Other(please specify)	NO	Not applicable	Not applicable

NUTRITIONAL VALUES

Nutritional Composition	☒ Per 100g	☐ Per serving
Energy(kJ/kcal)	1699 kJ / 406kcal	
Total BCAA	≥95.0 g	
Moisture	<0.1 g	
Cobamamide	N/A	
Remarks: Nutrition Data are obtained by 3 rd party lab; tested on a yearly basis		

TRACEABILITY

Batch size	N/A
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

Safety Data Sheet (SDS)

Section 1 Identification of Substance			
Product Name:	Micro-Vita Vega BCAA (2:1:1) 1000mesh	CAS No.	N/A
Molecular Formula:	N/A	Molecular Weight:	N/A
Supplier / trade brand	SmartHerb	Address	Chengnan Road, Huaxi Subdistrict, Changxing
Section 2 Hazards Identification			
2.1 Based on the currently available information, the mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP).			
2.2 No dangerous substance, no signal word, no H-statements, no P-statements required.			
Section 3 Composition, Information on Ingredients			
Component		Ratio	Country of origin
L-Leucine		50%	China
L-Isoleucine		25%	China
L-Valine		25%	China
Section 4 First Aid Measures			
Inhalation	Move the person to fresh air. Keep at rest in a position comfortable for breathing. Seek medical advice if irritation, coughing or other symptoms persist.		
Skin contact	Wash with soap and water. Remove contaminated clothing. Seek medical advice if irritation develops or persists.		
Eye contact	Rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical advice if irritation persists.		
Ingestion	Rinse mouth. If a large amount has been swallowed or symptoms occur, seek medical advice. Never give anything by mouth to an unconscious person.		
Section 5 Fire-Fighting Measures			

5.1 Extinguishing media

Suitable media: water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide, selected according to the surrounding fire. Avoid directing a high-pressure water jet at loose powder.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition or combustion may produce carbon oxides, nitrogen oxides and irritating fumes. Dispersed fine dust may present a combustible-dust hazard.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing. Cool exposed containers with water spray. Prevent contaminated firefighting water from entering drains or surface waters where practicable.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust and avoid contact with eyes. Ensure adequate ventilation. Remove ignition sources and prevent dust generation. Wear suitable protective equipment as described in Section 8.

6.2 Environmental precautions

Avoid uncontrolled release to drains, surface water and soil. The product is food-grade material but bulk releases should be contained.

6.3 Methods and material for containment and cleaning up

Carefully sweep or vacuum using equipment suitable for combustible dust. Transfer to a clean, dry, labelled container. Avoid dry brushing or compressed air where this creates airborne dust. Wash the affected area after recovery.

Section 7 Handling and Storage

7.1 Precautions for safe handling

Use adequate ventilation and minimise dust generation and accumulation.

Avoid contact with eyes and prolonged skin contact. Do not breathe dust.

Keep away from heat, sparks and open flames when dust may be generated.

Observe good industrial hygiene. Wash hands after handling and before eating, drinking or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Store in the original, tightly closed container in a cool, dry and well-ventilated place. Protect from moisture, contamination, direct sunlight and strong oxidising agents. Keep packaging closed when not in use.

Section 8 Exposure Controls/Personal Protection

Engineering controls	Provide local exhaust ventilation where dust is generated. Use closed transfer systems where practicable. Maintain good housekeeping to prevent dust accumulation.
Eye/face protection	Safety glasses with side shields; use chemical safety goggles where significant dust exposure is possible (e.g. EN 166).
Hand protection	Protective gloves are recommended for prolonged or repeated handling. Select glove material according to workplace risk assessment.
Skin/body protection	Clean work clothing appropriate to the level of exposure.
Respiratory protection	Where ventilation is insufficient or dust levels are elevated, use a suitable particulate respirator compliant with EN 149 (e.g. FFP2), selected by risk assessment.
Environmental exposure controls	Prevent significant uncontrolled release to the environment.

Section 9 Physical and Chemical Properties

9.1 Appearance: White to off-white fine powder

9.2 Particle size: $\geq 98\%$ through 1000 Mesh

9.3 Odor: none reported

9.4 pH: Not available.

9.5 Vapor Pressure: Negligible.

9.6 Vapor Density: Not available.

9.7 Evaporation Rate: Negligible.

9.8 Viscosity: Not available.

9.9 Boiling Point: Not available.

9.10 Freezing/Melting Point: 288 deg C (dec)

9.11 Decomposition Temperature: 288 deg C

9.12 Solubility: Slightly soluble

9.13 Specific Gravity/Density: 1.18 (water=1)

Section 10 Stability and Reactivity

10.1 Reactivity

No hazardous reactivity is expected under normal conditions of storage and use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation is not expected. Dust clouds may ignite if exposed to a sufficient ignition source.

10.4 Conditions to avoid

Moisture, excessive heat, dust generation and accumulation, electrostatic discharge and ignition sources.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Carbon oxides, nitrogen oxides and irritating fumes may be formed during thermal decomposition or combustion.

Section 11 Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Based on available information, classification criteria are not expected to be met.
Skin corrosion/irritation	Not classified. Dust or prolonged contact may cause transient mechanical irritation.
Serious eye damage/irritation	Not classified. Dust may cause transient mechanical irritation.
Respiratory or skin sensitisation	Based on available information, classification criteria are not expected to be met.
Germ cell mutagenicity	Based on available information, classification criteria are not expected to be met.
Carcinogenicity	Based on available information, classification criteria are not expected to be met.
Reproductive toxicity	Based on available information, classification criteria are not expected to be met.



STOT - single exposure	Not classified; high dust concentrations may irritate the respiratory tract.
STOT - repeated exposure	Based on available information, classification criteria are not expected to be met.
Aspiration hazard	Not applicable to a solid powder.

Section 12 Ecological Information

12.1 Toxicity

No mixture-specific aquatic toxicity data are available. The product is not expected to be acutely hazardous to the aquatic environment under normal use.

12.2 Persistence and degradability

The amino-acid components are expected to be biodegradable. Mixture-specific test data are not available.

12.3 Bioaccumulative potential

Significant bioaccumulation is not expected for the amino-acid components.

12.4 Mobility in soil

Water-soluble/dispersible components may be mobile in soil. No mixture-specific data are available.

12.5 Results of PBT and vPvB assessment

The mixture is not expected to meet PBT or vPvB criteria, subject to supplier confirmation.

Section 13 Disposal Considerations

13.1 Waste treatment methods

Dispose of product residues, contaminated absorbents and packaging in accordance with local, regional and national requirements. Avoid generating dust. Clean uncontaminated packaging may be recycled where permitted. The waste classification must be determined by the waste producer based on the actual use and contamination status.

Section 14 Transport Information

14.1 UN number or ID number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.



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14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not classified as environmentally hazardous.

14.6 Special precautions for user

Avoid generating dust. Keep containers tightly closed and protect from moisture.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15 Regulatory Information

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

This product has been assessed in accordance with Regulation (EC) No 1272/2008 (CLP) and is not classified as hazardous.

This Safety Data Sheet has been prepared in accordance with Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

Section 16 Other Information

This SDS matches 100% with company questionnaire, TDS, allergen, GMO, contaminant, packaging & fermentation process declaration. All information is correct for export EU customs & customer audit.

Flow Chart

