

Technical Data Sheet

Product Name:



Vegan Collagen

Product Code: EZ891342a

1. Technical Data Sheet

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Chemical Name	Type II Collagen	
CAS Number	9064-67-9	
Molecular Formula	(C ₆₅ H ₁₀₂ N ₁₈ O ₂₁)x	
Compliance (Food / Pharmacopoeia / FCC / Feed)	Food	
Brief Introduction: Vegan Collagen is a plant-based protein complex that mimics the benefits of traditional animal collagen, enriched with amino acids like glycine, proline, and hydroxyproline precursors. It supports skin, hair, nail, and joint health while offering a sustainable and cruelty-free alternative suitable for vegetarians and vegans.		
Item	Standard	Analysis Method
Appearance	White to Off-white Powder	Visual
Odor &Taste	Characteristic	Organoleptic
Plant-derived Hydroxyproline	15–20%	USP <41>
Glycine + Proline Plant synthesis	25–30%	USP <41>
Small-molecule Tripeptides (<800 Da) Pea/Rice Hydrolyzed Peptides	20–25%	HPLC
Sodium Hyaluronate Corn fermentation	5–8%	USP <743>
Moisture	≤ 8%	GB 5009.3
Ash Content	≤2%	Eur.Ph. <2.4.16>
Heavy metals		
Total Heavy Metals	≤10 ppm	USP <233>
Lead	≤1.0 ppm	USP <233>
Arsenic	≤1.0 ppm	USP <233>
Cadmium	≤1.0 ppm	USP <233>
Mercury	≤0.1 ppm	USP <233>
Microorganism		
Total plate count	≤1,000 cfu/g	USP <61>
Molds & Yeasts	≤100 cfu/g	USP <61>
E. coli	Negative/10g	USP <62>

Salmonella	Negative/10g	USP <62>
Staphylococcus	Negative/10g	USP <62>
Storage & Shelf Life		
Package	25kg/drum	
Shelf Life	The shelf life for the product is 24 months from date of production. Use it as soon as possible once it is opened.	
Storage	Store in unopened original package under clean and dry condition, away from sunlight.	

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		N		N		N		N

thereof (2)								
Peanuts and products thereof		N		N		N		N
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
1. 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; 2. Except: fish gelatine used as carrier for vitamin or carotenoid preparations, fish gelatine or Isinglass used as fining agent in beer and wine. 3. 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. 4. Except when used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages, lactitol. 5. 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> ☒ 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
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	☐ 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

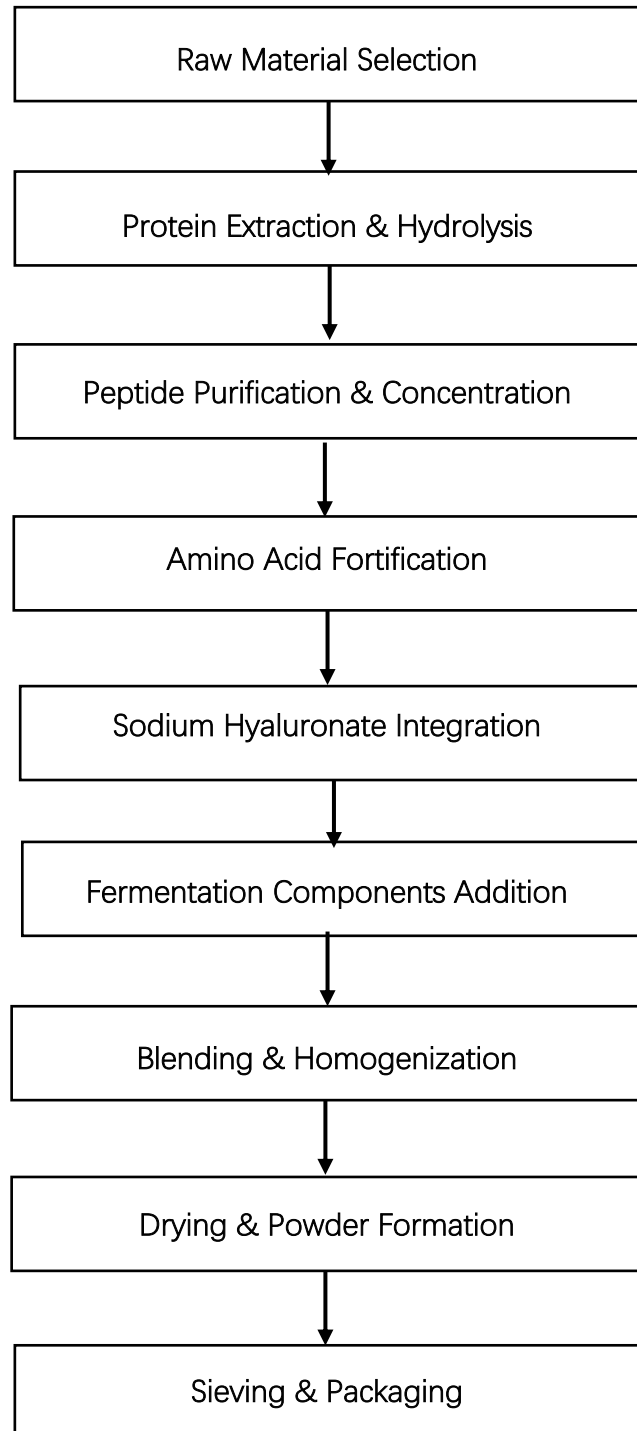
We hereby confirm that ethylene oxide (ETO), 2-chloroethanol, or any other chemical sterilizing agents are not used during the manufacturing, storage, or transportation of our products.

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

Type II Collagen





Material Safety Data Sheet

Product Name: Type II Collagen

CAS Number: 9064-67-9

Synonyms: Collagen Type II, Native Collagen, Hydrolyzed Type II Collagen

Recommended Use: Dietary supplement ingredient, functional foods, joint health formulations

1. Identification

Manufacturer: Enzymolab Biotech Co., Ltd

Address: East of Tianmu Road, Laiyang Development Zone, Yantai City, Shandong Province, 265200, China

Intended Use: Nutritional supplement, joint support, mobility support

2. Hazard Identification

GHS Classification: Not classified as hazardous under GHS

Signal Word: None

Hazard Statements: None

Precautionary Statements: Avoid dust formation; handle in well-ventilated area

Potential Health Effects:

Inhalation: May cause mild irritation if inhaled as dust

Skin Contact: Generally non-irritating; may cause minor irritation in sensitive individuals

Eye Contact: Dust may cause temporary irritation

Ingestion: Generally safe as dietary protein; excessive amounts may cause gastrointestinal discomfort

3. Composition / Information on Ingredients

Component	Concentration
Plant-derived Hydroxyproline	15-20%
Glycine + Proline	25-30%

4. First-Aid Measures

Inhalation: Move to fresh air; consult a physician if symptoms persist

Skin Contact: Wash with soap and water; seek medical attention if irritation develops

Eye Contact: Rinse with water for at least 15 minutes; seek medical advice if irritation continues

Ingestion: Drink water; seek medical advice if discomfort occurs

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5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, foam, CO₂

Unsuitable Extinguishing Media: None known

Special Hazards: Combustible dust may form in air; use standard precautions

Protective Equipment: Wear self-contained breathing apparatus and protective clothing

6. Accidental Release Measures

Personal Precautions: Avoid dust inhalation; use gloves, mask

Environmental Precautions: Avoid release into waterways

Methods for Cleaning: Sweep or vacuum; avoid creating dust clouds

7. Handling and Storage

Handling: Avoid generating dust; use in well-ventilated areas

Storage: Store in a cool, dry, well-ventilated place, away from moisture and direct sunlight

Shelf Life: Typically, 2 years when stored properly

8. Exposure Controls / Personal Protection

Engineering Controls: Use local exhaust ventilation if dust is generated

Personal Protective Equipment:

Respiratory: Dust mask if handling powder

Hands: Protective gloves

Eyes: Safety goggles

Skin: Protective clothing

9. Physical and Chemical Properties

Property	Description
Appearance	White to off-white powder
Odor	Characteristic protein odor
pH (1% solution)	5–7
Solubility	Soluble in hot water; partially soluble in cold water
Molecular Weight	~300–400 kDa (native); 2–6 kDa (hydrolyzed)
CAS Number	9064-67-9

10. Stability and Reactivity

Stability: Stable under normal storage conditions

Conditions to Avoid: Excessive heat, moisture, strong oxidizing agents

Incompatible Materials: Strong acids, bases, and oxidizers

Hazardous Decomposition Products: None under normal conditions

11. Toxicological Information

Acute Toxicity: Low; no significant toxicity known

Chronic Toxicity: Not reported

Sensitization: May cause mild skin or respiratory irritation in sensitive individuals

Carcinogenicity / Mutagenicity / Reproductive Toxicity: Not classified or reported

12. Ecological Information

Biodegradable; low environmental risk when used as intended. Avoid large-scale release to water or soil

13. Disposal Considerations

Dispose in accordance with local regulations. Can be incinerated or landfilled if permitted

14. Transport Information

UN Number: Not regulated

Transport Hazard Class: Not hazardous

Packaging: Standard dry, sealed packaging

15. Regulatory Information

Complies with relevant food and dietary supplement regulations. Not classified as hazardous under OSHA, GHS, or EU regulations

16. Other Information

Prepared based on current knowledge and best practice. For professional use only; intended for dietary supplement formulations