

Product Data Sheet

Product name: Chondroitin Sulphate Terrestrial EP/USP

Product Code: AC05003e

1. Technical Data Sheet

CAS number	9007-28-8	
Compliance (Food/ Pharmaceutical /FCC/Feed)	Pharmacopeia	
Source (animal, plant, mineral, petrochemical)	Terrestrial	
Item	Standard	Analysis Method
Sensory		
Appearance	White or almost white, hygroscopic powder	Visual
Typical Analysis		
Identification	Infrared absorption spectrophotometry	EP 11.0 / USP 41
Identification	Sodium Reaction	EP 11.0 / USP 41
Identification	Related Substances $\leq 2.0\%$	EP 11.0 / USP 41
Assay	$\geq 95\%$ by CPC (Dry basis)	EP 11.0
Assay	90 – 105% by CPC (Dry basis)	USP 41
Assay	$\geq 90\%$ by HPLC (Dry basis)	Enterprise Standard
Assay	$\geq 80\%$ by Enzymatic-HPLC (Dry basis)	USP 41
Nonsulfate Chondroitin	$\leq 10.0\%$	USP 41
Particle Size	100% pass through sieve 80 mesh	EP 2.9.31
Water Solubility	Freely soluble in water, practically insoluble in acetone and in ethanol (96 per cent)	Enterprise Standard
Loss on drying	$\leq 12.0\%$	EP 2.2.32 / USP 41
PH	5.5 ~ 7.5	EP 2.2.3 / USP 41
Chloride	0.5% Max	EP 2.4.4 / USP 41
Clarity	$\leq 0.35\%$	USP 41
Sulfate	$\leq 0.24\%$	USP 41
Protein	$\leq 3.0\%$	EP 2.5.33 / USP 41
Residue on ignition	20% ~ 30%	EP 2.4.14 / USP 41
Specific Rotation	-20°~ -30°	EP 2.2.7 / USP 41
Heavy Metals		
Heavy metals	≤ 10 ppm max	EP 2.4.8 / USP 41
Lead	≤ 3.0 ppm	EP 2.4.8 / USP 41
Arsenic	≤ 1.0 ppm	EP 2.4.8 / USP 41
Cadmium	≤ 1.0 ppm	EP 2.4.8 / USP 41
Mercury	≤ 0.1 ppm	EP 2.4.8 / USP 41
Microorganism		
Total Plate Count	$\leq 1,000$ CFU/g	EP 2.6.12 / USP 41
Yeast and Mold	≤ 100 CFU/g	EP 2.6.12 / USP 41
E. Coli	Negative/g	EP 2.6.13 / USP 41



Salmonella	Negative/10g	EP 2.6.13 / USP 41
A.Aureus	Negative/g	EP 2.6.13 / USP 41
Pseudomonas Aeruginosa	Negative/g	EP 2.6.13 / USP 41
Bile-Tolerant Gram-Negative Bacteria	Negative/g	EP 2.6.13 / USP 41
Package	25kgs/Paper Drum	
Storage & Shelf Life	The product may be stored for 24 months from the date of manufacture in the unopened original container and at room temperature. It should be protected from light, heat, oxygen and moisture. Keep the container tightly closed. Once opened, use contents quickly	

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 ☐	
Composition of the products		100% Chondroitin Sulphate	
Animal Origin	☒ Bovine		
	☒ Porcine		
	☒ Chicken		
	☐ Others:		
Mineral Origin	☐		Specific Source:
Synthetic	☐	Starting Material:	Origin:
		Starting Material:	Origin:
Biotechnological Processing	☐ Catalysis By Enzymes		Name Of Enzyme: Sources Of Enzymes:
	☐ Micro -Organisms		Source Of Medium:
Botanical Origin	Botanical Name:		/
	Part:		/
	Wild Or Cultivated:		/
	Country Of Origin:		China
	Solvent Used:		Ethanol

3.Nutrition data

Nutritional composition	☒ per 100g	☐ per serving
☐ Energy(kJ) ☒ Energy(kcal)	269.2 kcal	
Fat (g)	<0.1	
Carbohydrates (g)	42.1	
Protein (g)	25.2	
Remarks: Nutrition data are obtained by 3 rd party lab; tested on a yearly basis		

4.Process Quality And Food Safety

Flow Chart:	
This Product Specification Has Listed The Detailed Process Flow Chart Of Each Step	

Of The Actual Production Process From Raw Material Pretreatment To Finished Product Warehousing, Including Possible Additives, Processing Aids, Steps To Remove Foreign Matters, CCP, Water Used, Compressed Air Etc.		Integrity Flow Chart Available ☒
Foreign Body Control		
Have Implemented Control Procedures For Glass, Fragile Plastic Materials		☒
☒ Sieve	Location: Before Packing	Mesh Size: 0.2mm
☒ Magnetic Device	Location: Before Packing	Magnetic Strength: 13400Gauss
☐ Filter Bag Or Filter Membrane	Location:	Aperture Of Filtering Device:
Pest Control		
Conducted By Manufacturer ☐		
By External Contractor ☒		Name Of Contractor:
Inspection Frequency: 1 Time Per Year		

5. GMO Declaration	YES	NO
The Product Contain Or Consist Of GMO	☐	☒
The Product Is Produced From GMO Or Contain Ingredients Produced From GMO (Irrespective Of Whether There Is NDA Or Protein Of GM Origin In The Final Production)	☐	☒
This Product Is Produced By Means Of GM Microorganism Including Precursor Substances, E.G. With Gmos Or Genetically Modified Microorganisms Processing Aids(Bacteria, Yeast,..)	☐	☒
This Product Is 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 EC1830/2003 And Keep NON-GMO Statement Available		☒

6. 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 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 (*Amygdalus communis* L.) hazelnuts (*Corylus avellana*), walnut (*Juglans regia*), cashew (*Anacardium occidentale*), pecan nuts (*Carya illinoensis*), brazil nut (*Bertholletia excelsa*), pistachio nut (*Pistacia vera*), macadamia nut and queensland nut (*Macadamia terniflora*) and products thereof, except nuts used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages;

7. Non Irradiation

(According To Eu Directive 1999/2/EC & 1999/3/EC)

This Product Has Been Treated With Ionising Radiation	☐ Yes	☒ No
None Of The Raw Materials We Used For This Product Have Been Treated With Ionising Radiation.	☐ Yes	☒ Not Used
We Confirm Above Non-Irradiation Statement Is Available	☒	

8. Nanomaterial

(According To Eu Regulation (Eu) No. 1169/2011)

This Product Does Contain Any Nanomaterials As Defined In EU Food Legislation	☐ Yes	☒ No
This Product Has Been Made With Nanotechnology	☐ Yes	☒ No
We Confirm Above Non-Nanomaterial Statement Is Available	☒	

9. Residual Solvents

(According To UE Directive 2009/32 Modified By (UE) 2010/59; EP 5.4; USP 476; ICH Q3C(R7))

For This Product Following Solvents Are Used During Production Process:	☒ Solvent Used ☐ Solvent Not Used	
Solvent A: Max Residual Level:		
Solvent B: Max Residual Level:		
We Confirm Solvent Residual Of This Product Complies With:	☒ EP 11.0 ☒ USP 41 ☒ ICH Q3C(R7)	

	☒ Directive 2010/59/EU
We Confirm Solvent Residual Statement Is Available	☒

10. 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	☒

11. BSE/TSE Information

(According To EU Legislation 999/2001; EP General Chapter 5.2.8)

Cattle, Sheep, Goats And Animals That Are Naturally Susceptible To Infect With Transmissible Spongiform Encephalopathy Agents Or Susceptible To Infection Through The Oral Route Other Than Humans And Non-Human Primates Are Defined As "ESE-Relevant Animal Species"
 Pigs Ad Birds Are Not Naturally Susceptible To Infection Via The Oral Route; Therefore, They Are Not TSE-Relevant Animal Species. Dogs, Rabbits And Fish Are Not TES-Relevant Animal Species."

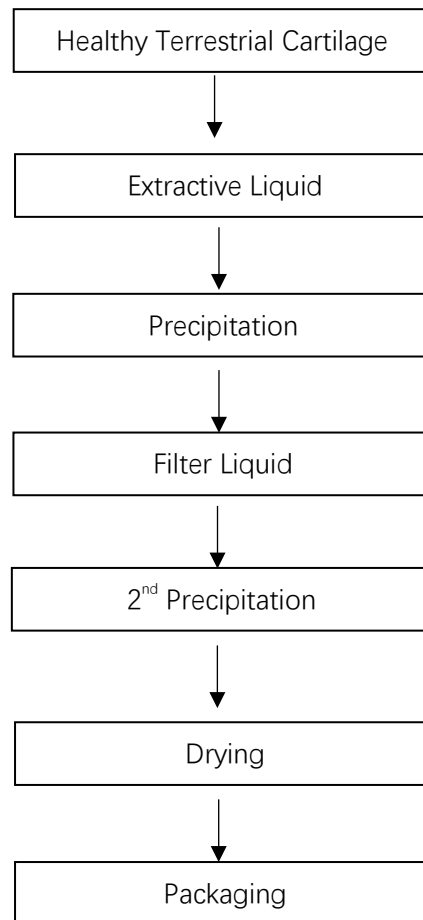
The Product Contains Ingredients Of Ruminant Origin And No Materials Derived From, Or Exposed To Ruminants Affected By Or Under Quarantine For Transmitting Transmissible Spongiform Encephalopathy (TSE) / Bovine Spongiform Encephalopathy (BSE)	☐ YES ☒ NO, Not used ☐ NA
We Confirm This Product Complies With:	☒ EU Legislation 999/2001& ☒ EP General Chapter 5.2.8
We Confirm BSE/TSE Statement Is Available	☒ YES

12. Contaminants Information

(According To EU Regulation NO.1881/2006, EU 2023/915 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 ● Melamine	☒ YES ☐ NO ☐ NA	(Frequency For Surveillance Test Or Batch Test)
For Polycyclic Aromatic Hydrocarbons, In Cocoa Fibre, Banana Chips, Food Supplements And Their Preparations, Dried Herbs And Dried Spices: ● 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	(Frequency For Surveillance Test Or Batch Test)

Flow Chart





Material Safety Data Sheet

1. Identification of the substance

1.1 Product

Product Name: Chondroitin Sulphate

1.2 Relevant identified uses of the substance or mixture and uses: Food ingredient; Food supplement ingredient.

1.3 Manufacturer: Yantai Ruikangda

1.4 CAS No: 9007-28-8

2. Hazards identification

2.1 Classification of the substance or mixture

Not classified according to Regulation (EC) No.1272/2008 (CLP).

2.2 Label elements

None required.

2.3 Other hazards

Dust may cause mechanical irritation. Does not meet PBT/vPvB criteria. No endocrine disrupting properties identified.

3. Composition

Chondroitin Sulphate 100%.

No hazardous ingredients requiring declaration.

4. FIRST AID MEASURES

4.1 Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention immediately.

4.2 Skin Contact: Wash affected area with plenty of water. Seek medical attention if irritation persists.

4.3 Eye Contact: Rinse thoroughly with water for at least 15 minutes. Seek medical attention immediately.

4.4 Ingestion: Do not induce vomiting. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

5.1 Flash Point: N/A

5.2 Autoignition Temperature: N/A

5.3 Fire Extinguishing Media: Use appropriate media for type of fire.

5.4 Special Hazards: None known.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Wear appropriate protective equipment.



6.2 Environmental Precautions: Prevent entry into waterways, sewers, or basements.

6.3 Methods for Containment and Cleanup: Contain spill and absorb with inert material. Dispose of according to local regulations.

7. HANDLING AND STORAGE

7.1 Handling: Avoid contact with skin, eyes, and clothing. Use in well-ventilated area.

7.2 Storage: Store in a cool, dry place. Keep away from heat, sparks, and open flames.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Engineering Controls: Use local exhaust ventilation.

8.2 Respiratory Protection: Use respiratory protection if exposure limits are exceeded.

8.3 Eye Protection: Wear chemical safety goggles.

8.4 Skin Protection: Wear protective gloves and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance: White or almost white, hygroscopic powder

9.2 Melting Point: N/A

9.3 Density: N/A

9.4 Solubility: N/A

10. STABILITY AND REACTIVITY

10.1 Stability: Stable under normal conditions.

10.2 Incompatibility: May react with strong oxidants.

10.3 Conditions to Avoid: Heat, sparks, and open flames.

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity: LD50 data not available.

11.2 Carcinogenicity: Not classified as carcinogenic.

11.3 Reproductive Toxicity: Not classified as reproductive toxicant.

12. ECOLOGICAL INFORMATION

12.1 Environmental Fate: Not available.

12.2 Persistence and Bioaccumulation: Not available.

12.3 Other Ecological Effects: Not available.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Methods: Dispose of according to local regulations. Do not dispose of in waterways or sewers.

14. TRANSPORT INFORMATION

14.1 DOT Classification: Not regulated as a hazardous material (specific classification depends on actual test results and packaging)

14.2 UN Number: N/A

14.3 Proper Shipping Name: N/A



15. REGULATORY INFORMATION

15.1 WHMIS Classification: Not classified (specific classification depends on Canadian regulations)

15.2 GHS Classification: Not classified (specific classification depends on GHS criteria and test results)

16. OTHER INFORMATION

Date Prepared: June, 2026

Revision Date: June, 2026