

Technical Data Sheet

Product Name: PQQ (Pyrroloquinoline Quinone Disodium Salt) **Product Code:** EZ891214c

1. Technical Data Sheet			
Chemical Name		Pyrroloquinoline Quinone Disodium Salt	
CAS Number		122628-50-6	
Molecular Formula		C ₁₄ H ₄ N ₂ Na ₂ O ₈	
Compliance (Food / Pharmacopoeia / FCC / Feed)		Food	
Brief Introduction: Pyrroloquinoline quinone (PQQ) is a naturally occurring redox cofactor with potent antioxidant properties and is found in a wide range of fermented foods. Owing to its diverse biological activities and potential role in supporting mitochondrial function, PQQ has attracted growing interest in anti-aging research, dietary supplementation, and healthcare in recent years.			
Item	Standard	Results	Analysis Method
Appearance	Henna powder	Conforms	Visual
Purity	NLT 99.0%	100.00%	HPLC
Identification	IR spectrum consistent with the reference standard	Conforms	IR
Water Content	NMT 12.0%	9.15%	USP <731>
Residual Solvents (Ethanol)	Ethanol: NMT 5,000 ppm	Conforms	USP-NF 2024
Heavy Metals			
Total Heavy Metals	NMT 10 ppm	Conforms	USP <231>
Lead (Pb)	NMT 1.0 ppm	Conforms	ICP-MS
Arsenic (As)	NMT 1.5 ppm	Conforms	ICP-MS
Cadmium (Cd)	NMT 0.3 ppm	Conforms	ICP-MS
Mercury (Hg)	NMT 0.1 ppm	Conforms	ICP-MS
Microorganism			
Total Plate Count	NMT 1,000 CFU/g	Conforms	USP-NF 2024
Yeast & Mold	NMT 100 CFU/g	Conforms	USP-NF 2024
Enterobacteriaceae	NMT 100 CFU/g	Conforms	USP-NF 2024
E. coli	Negative	Negative	USP-NF 2024
Salmonella	Negative	Negative	USP-NF 2024
Staphylococcus aureus	Negative	Negative	USP-NF 2024

Storage & Shelf Life	
Package	Two plastic bags inside one outer aluminium foil bag
Shelf Life	2 years if sealed and stored properly
Storage	Store in airtight containers, protected from light, at room temperature.

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: N/A	Origin: N/A
Biotechnological processing	☐ Catalysis	Name of Enzyme: N/A Source of Enzymes: N/A	
	☒ Fermentation	Source of Medium: Strain: Methylovorus glucosotrophus	
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

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 DNA 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 EC1830/2003 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					
	Yes (Precise nature)	No	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		N		N		N		N

thereof							
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
	☒ 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	
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8. Residual Solvents (According to UE Directive 2009/32 modified by (UE)2010/59; EP5.4; USP476; ICH Q3C(R7))	
Residual solvent reported in COA: Ethanol; limit: NMT 5,000 ppm; result: Conforms.	☒ 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 ☐ N/A
We confirm Solvent residual statement is available	☒

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	☒

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	☒

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 ☐ NO ☐ NA
Melamine Free	☒
Dioxins, Furans, Polychlorinated Biphenyls Free	☒
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	☒

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.

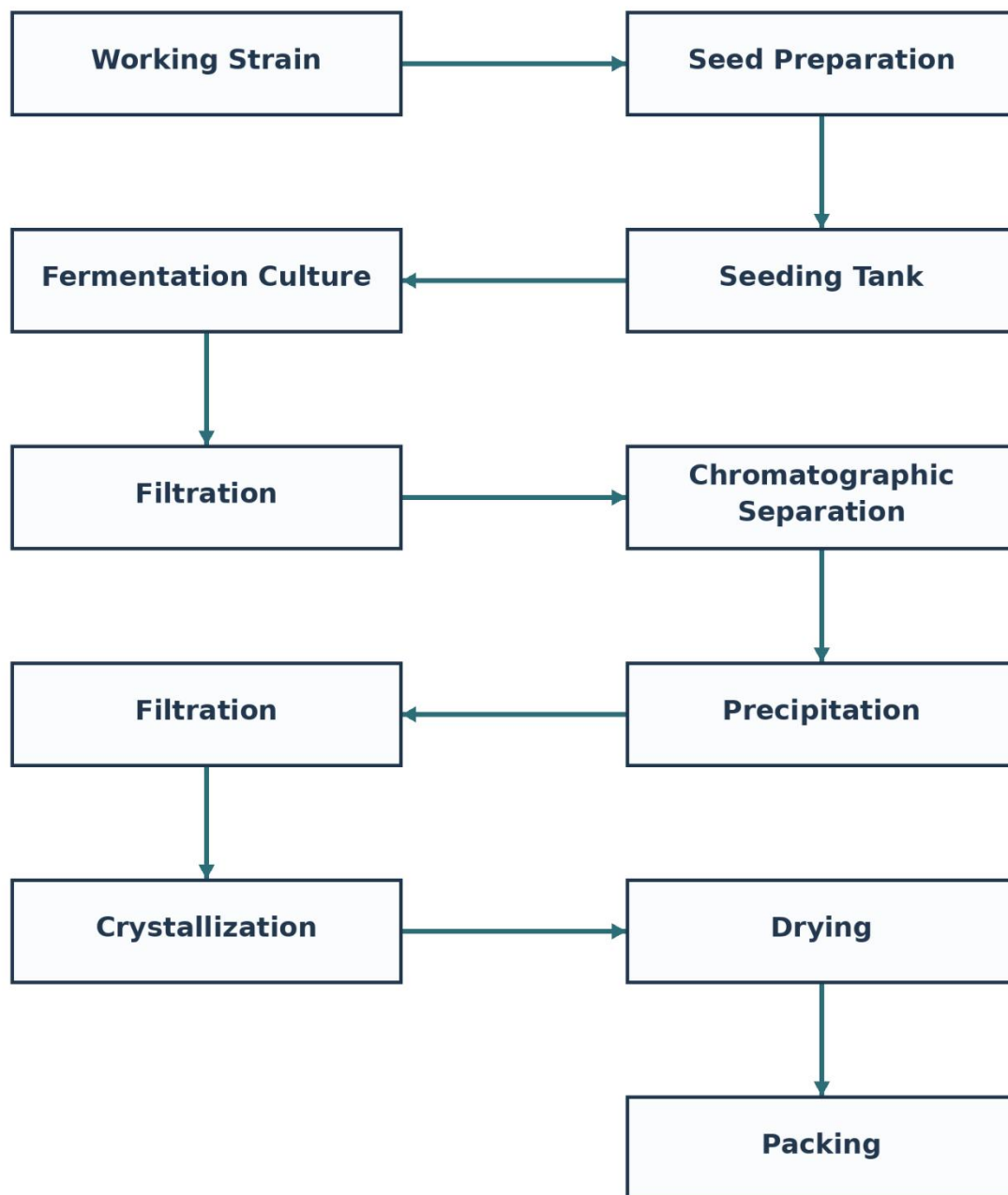
14. Other Statements

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

Pyrroloquinoline Quinone Disodium Salt (PQQ)



Safety Data Sheet

Product Name: Pyrroloquinoline Quinone Disodium Salt

CAS Number: 122628-50-6

Recommended Use:

1. Identification

Manufacturer: Enzymolab

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

2. Hazard Identification

GHS Classification:

Signal Word:

Hazard Statements:

Precautionary Statements: Avoid dust formation; provide appropriate exhaust ventilation where dust is formed

Potential Health Effects:

Inhalation: May be harmful if inhaled; may cause respiratory tract irritation

Skin Contact: May be harmful if absorbed through skin; may cause skin irritation

Eye Contact: May cause eye irritation

Ingestion: May be harmful if swallowed in excessive amounts

3. Composition / Information on Ingredients

Component	Information
PQQ Disodium Salt	CAS Number: 122628-50-6
Molecular Formula / Molecular Weight	C ₁₄ H ₄ N ₂ Na ₂ O ₈ / 374.17 g/mol

4. First-Aid Measures

Inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Do not give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Fire Hazards: Irritating and highly toxic gases may be generated by thermal decomposition or

combustion.

Protective Equipment: Wear self-contained breathing apparatus if necessary.

6. Accidental Release Measures

Personal Precautions: Avoid dust formation and breathing vapors, mist or gas.

Environmental Precautions: Do not let product enter drains.

Methods for Cleaning: Sweep up and shovel; keep in suitable, closed containers for disposal.

7. Handling and Storage

Handling: Provide appropriate exhaust ventilation at places where dust is formed.

Storage: Preserve in airtight containers, protected from light and store at room temperature.

8. Exposure Controls / Personal Protection

Control Parameters:

Engineering Controls: General industrial hygiene practice

Personal Protective Equipment:

Respiratory: Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N99 (US) or type P2 (EN 143) as backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied-air respirator.

Hands: Handle with gloves; inspect gloves before use. Use proper glove removal technique and wash and dry hands after handling.

Eyes/Face: Face shield and safety glasses.

Body: Complete suit protecting against chemicals; select protective equipment according to the concentration and amount at the workplace.

9. Physical and Chemical Properties

Property	Description
Appearance	Henna powder
Solubility in water	Soluble in water
Melting Point	
Flash Point	
Formula	C ₁₄ H ₄ N ₂ Na ₂ O ₈
Molecular Weight	374.17 g/mol

10. Stability and Reactivity

Stability: Stable at room temperature.

Incompatibilities: Strong oxidizing agents.

Decomposition Products: Carbon oxides (CO_x), nitrogen oxides (NO_x).

11. Toxicological Information

Acute Toxicity: No data available

Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: No component at a level $\geq 0.1\%$ is identified by IARC as a probable, possible or confirmed human carcinogen.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity (Single/Repeated Exposure): No data available

Aspiration Hazard: No data available

12. Ecological Information

Do not allow product to enter drinking water supplies, wastewater or soil.

13. Disposal Considerations

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated Packaging: Dispose of as unused product.

14. Transport Information

UN Number: ADR/RID: -; IMDG: -; IATA: -

UN Proper Shipping Name: Not dangerous goods (ADR/RID, IMDG, IATA)

Transport Hazard Class: ADR/RID: -; IMDG: -; IATA: -

Packaging Group: ADR/RID: -; IMDG: -; IATA: -

Environmental Hazards: ADR/RID: No; IMDG: No; IATA: No

Special Precautions: No data available

15. Regulatory Information

No data available

16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, no warranty, express or implied, is made, and no liability is assumed for its use. Users should make their own investigations to determine suitability for their particular purposes.