

PYRROLOQUINOLINE QUINONE (PQQ)

Disodium Salt | Pure by Nature, Life by Science

HANGZHOU PURELIFE BIOTECH CO., LTD

Premium PQQ Manufacturer & Innovation Leader

WHAT IS PQQ?

Pyroloquinoline Quinone (PQQ) is a unique redox cofactor and powerful antioxidant that plays a crucial role in cellular energy metabolism and mitochondrial function. PQQ has gained significant attention for its remarkable ability to support brain health, cognitive function, and cellular energy production. Unlike other antioxidants, PQQ can undergo thousands of electron transfers without being consumed.

Chemical Name: Pyrroloquinoline Quinone Disodium Salt | **Formula:** C₁₀H₆N₂Na₂O₂ | **MW:** 374.17 g/mol | **CAS:** 122628-50-6

KEY BENEFITS

- **Cognitive Function:** Supports memory, attention, and cognitive processing
- **Mitochondrial Energy:** Essential for optimal mitochondrial function and ATP production
- **Powerful Antioxidant:** Thousands of redox cycles without being consumed
- **Mitochondrial Biogenesis:** May stimulate growth of new mitochondria
- **Sleep Quality:** Improves sleep quality and reduces fatigue
- ♥■ **Cardiovascular Health:** Supports heart health through antioxidant mechanisms

WHY CHOOSE PURELIFE BIOTECH?

- **Premium Quality:** ≥98.0% purity (Actual: 99.4%), Assay: 100.6%
- **Science-Driven:** Advanced fermentation and purification technology
- **Natural & Sustainable:** Bio-identical PQQ, Non-GMO production
- **Reliable Supply:** Consistent production, 50+ countries exported

CERTIFICATE OF ANALYSIS SUMMARY - BATCH PL2603001

PRODUCT SPECIFICATIONS

Parameter	Specification	Test Result
Appearance	Red or reddish brown powder	Conforms
Identification A233/A259	0.90±0.09	0.81
Identification A322/A259	0.56±0.03	0.56
Loss on Drying	≤12%	8.90%
Purity (HPLC)	≥98.0%	99.4%
Assay (on dry basis)	≥98.0%	100.6%

HEAVY METALS

Parameter	Specification	Test Result
Arsenic (As)	≤1.0 ppm	<0.1 ppm

Lead (Pb)	≤0.5 ppm	<0.1 ppm
Mercury (Hg)	≤0.1 ppm	<0.05 ppm
Cadmium (Cd)	≤0.1 ppm	<0.05 ppm

MICROBIOLOGICAL TESTING

Parameter	Specification	Test Result
Total Plate Count	≤1000 CFU/g	Complies
Yeast & Mold	≤100 CFU/g	Complies
E. coli	Negative/1g	Negative/1g
Salmonella	Negative/10g	Negative/10g
S. aureus	Negative/1g	Negative/1g
Listeria	Negative/25g	Negative/25g

■ CONCLUSION: CONFORMS TO ENTERPRISE STANDARDS

Batch No.: PL2603001 | Production Date: 2026-MAR-13 | Expire Date: 2029-MAR-12 | Quantity: 200 KGS | Shelf Life: 36 months

PRODUCT FORMS AVAILABLE

Form	Description	Applications
PQQ Disodium Salt	Standard form, high stability	Capsules, tablets, powders
PQQ Free Acid	Acid form for specific use	Research, specialized products
Water-Soluble	Enhanced solubility	Beverages, liquids
Custom Blends	PQQ + CoQ10 or others	Synergistic formulas

APPLICATIONS

- **Dietary Supplements:** Cognitive support, energy metabolism
- **Functional Beverages:** Brain health, energy drinks
- **Food & Nutrition:** Fortified foods, meal replacements
- **Cosmetics:** Anti-aging, energy-boosting formulations
- **Pet Nutrition:** Senior pet cognitive support
- **Research:** Neuroscience, mitochondrial studies

PACKAGING & STORAGE

Packaging: 1kg vacuum foil bag | 5/10/20kg drum with double PE bag | Nitrogen flushing available
Storage: Sealed, protected from light, room temperature | Shelf life: 36 months

QUALITY ASSURANCE

Every batch undergoes rigorous testing: HPLC purity analysis, UV-Vis identification, heavy metal screening (ICP-MS), microbiological testing, and stability testing.
Standards: Enterprise Standards | GMP | ISO 22000 | HACCP | Kosher | Halal

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