

## Organic Goji Extract Powder



### What is Organic Goji Extract Powder?

**Organic Goji Extract Powder** (*Lycium barbarum* L.) is a high-potency 15:1 concentrate derived from Ningxia GI-protected goji berries. Utilizing dual water/alcohol extraction at  $\leq 45^{\circ}\text{C}$ , it delivers standardized bioactive compounds - including 40% polysaccharides and 200mg zeaxanthin per 100g - while preserving thermolabile antioxidants.

### Key Specifications

Parameter	Standard	Premium Grade
<b>Botanical Source</b>	<i>Lycium barbarum</i> (Ningxia PGI)	Organic Wildcrafted Option
<b>Extraction Ratio</b>	15:1 (equivalent to 1,500g berries/100g powder)	20:1 Concentrate Available

Parameter	Standard	Premium Grade
<b>Polysaccharides</b>	≥40% (UV-Vis, AOAC 999.03)	≤55% Enriched
<b>Zeaxanthin</b>	≥0.2% (HPLC-DAD)	≥0.35% Enhanced
<b>Particle Size</b>	D90 ≤ 50µm	Nano-milled (D90 ≤ 10µm)
<b>Solubility</b>	Cold water-soluble (≥80%)	Instant Dissolving Formula
<b>ORAC Value</b>	≥45,000 µmol TE/g	≤60,000 µmol TE/g

## Core Benefits

### Clinically Validated Efficacy

- ↑ **46% NK cell activity** (6-week human trial)
- ↓ **Oxidative stress markers** by 32% (J Agric Food Chem 2021)

### Bioactive Advantages

- **Immune-Modulating Polysaccharides:** LBPs (Lycium barbarum polysaccharides) with proven macrophage activation
- **Vision Support:** Natural zeaxanthin (>80% retinal bioavailability)
- **Antioxidant Synergy:** Betaine, cerebroside, and phenolic acids

### Technical Superiority

- **Protease-Enzyme Extraction:** Breaks protein-polysaccharide bonds for ≤80% bioavailability
- **Light/Oxygen Protection:** Nitrogen-flushed amber glass packaging

## Applications

Industry	Formulation Use Cases	Bioactive Claim Support
<b>Immune Supplements</b>	Capsules, tablets, gummies	"Clinically studied immune cell activation"

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<b>Eye Health</b>	AREDS2 alternatives, vision complexes	"Provides dietary zeaxanthin for macular pigment density"
<b>Beauty Foods</b>	Collagen-boosting powders, beauty shots	"Antioxidant protection against photoaging"
<b>Sports Nutrition</b>	Recovery blends, antioxidant stacks	"Reduces post-exercise oxidative stress"

## Quality & Certifications

### Third-Party Testing

- **Identity:** DNA barcoding (ITS2 region) + TLC authentication
- **Potency:** HPLC-ELSD polysaccharide profiling (vs. NIST SRM 3288)
- **Purity:**
  - Heavy Metals: Pb≤0.05ppm, Cd≤0.02ppm, As≤0.1ppm
  - Solvents: Ethanol residue ≤50ppm (GC-FID)
  - Microbiology: Sterile (Gamma-irradiated upon request)

### Certifications

- **Organic:** USDA NOP · EU Organic · JAS
- **Safety:** ISO 22000 · GMP (21 CFR 111) · FDA GRAS Dossier
- **Claims Support:** Clinical trial documentation available

## Customization Options

### Bioactive Tailoring

- Polysaccharide content: 40-60%
- Zeaxanthin enrichment: 0.2-0.5%
- ORAC value boosting: 45,000-70,000 μmol TE/g

### Functional Modifications

- Cold-water instant solubility
- Flavor masking (natural berry/vanilla notes)
- Reduced hygroscopicity treatment

### Supply Solutions

- Private labeling with customized COA parameters
- Clinical-grade batches for supplement studies
- Pre-blends with organic acerola/vitamin C

## FAQs

### Q: Extraction solvent residues?

A: Food-grade ethanol only; residual solvent  $\leq 50$ ppm (below ICH Q3C limits).

### Q: MOQ for clinical-grade material?

A: 50kg with full characterization package (HPLC, MS, stability data).

### Q: Stability under accelerated conditions?

A:  $\leq 5\%$  polysaccharide degradation after 6 months at 40°C/75% RH.

### Q: Allergen status?

A: Processed in dedicated gluten/nut/soy-free facility (SQF Level 3).

## Packing



Want to learn more about this product or have any questions?

**[View Product Page: Organic Goji Extract Powder](#)**