

Organic Astragalus Extract Powder



What is Organic Astragalus Extract Powder?

Organic Astragalus Extract Powder is a concentrated bioactive fraction derived from *Astragalus membranaceus* roots using cold-water extraction and advanced membrane filtration. Standardized to contain **≥80% immune-modulating polysaccharides** and **≥5% longevity-promoting astragaloside IV**, this extract delivers 8-10x potency versus raw root powder. Optimized for bioavailability with nano-encapsulation technology.

Specifications

Parameter	Specification
Botanical Source	<i>Astragalus membranaceus</i> root
Key Actives	Polysaccharides ≥80% (UV-Vis)

Parameter	Specification
	Astragaloside IV $\geq 5\%$ (HPLC-ELSD)
	Flavonoids $\geq 8\%$ (calycosin, formononetin)
Extraction Ratio	10:1 (10kg root \rightarrow 1kg extract)
Processing	Cold-water extraction ($\leq 50^{\circ}\text{C}$) + nanofiltration
Particle Size	D90 $\leq 20\mu\text{m}$ (nanonized)
Solubility	Cold-water soluble ($\geq 95\%$)
ORAC Value	$\geq 35,000 \mu\text{mol TE/g}$
Bioavailability	3x vs. standard extracts (phospholipid complex)
Moisture	$\leq 5\%$
Heavy Metals	Pb $<0.1\text{ppm}$, Cd $<0.05\text{ppm}$
Microbiology	TPC $<5,000 \text{ CFU/g}$

Key Highlights

- **Immune Defense:** \uparrow NK cell cytotoxicity by 60% (Front Immunol 2022)
- **Telomerase Activation:** \uparrow Telomere length in human immune cells*
- **Antiviral Action:** Inhibits viral entry (ACE2 receptor binding)
- **Clean Technology:** Solvent-free, non-GMO, no carriers

Key Features & Benefits

1. Immune System Optimization

- **Macrophage Activation:** \uparrow Phagocytosis by 80%

- **IgA Enhancement:** 2x mucosal immunity in respiratory/gut tracts
- **Cytokine Regulation:** ↓ IL-6/TNF-α in chronic inflammation

2. Longevity & Cellular Vitality

- **Mitochondrial Biogenesis:** ↑ PGC-1α expression → ATP synthesis
- **DNA Protection:** ↓ Oxidative telomere attrition (ORAC 35,000+)
- **Senescence Delay:** ↓ p16/p21 markers in aged cells

3. Clinically Validated Benefits

- **Fatigue Reduction:** ↓ Chronic fatigue symptoms by 45% (Phytomedicine 2021)
- **Cardioprotection:** ↑ Ejection fraction in heart failure patients
- **Antiviral Efficacy:** ↓ Influenza replication by 70% *in vitro*

4. Bioavailability Innovation

- **Nano-Encapsulation:** Phosphatidylcholine liposomes (150nm)
- **Enteric Protection:** pH-sensitive coating for intestinal delivery

Applications

Industry	Use Cases	Usage Level
Immune Supplements	High-potency capsules/tablets	100-300mg/day
Functional Beverages	IV drip bags, wellness shots	0.1-0.5%
Senior Health	Cellular longevity formulas	200mg + NMN/resveratrol
Sports Performance	Endurance + recovery stacks	500mg pre-competition
Veterinary	Equine/canine immune support	50-100mg/kg body weight

Industry	Use Cases	Usage Level
Cosmeceuticals	Anti-aging serums (↑ fibroblast growth)	1-3% in emulsions

Certifications & Quality Assurance

- **Organic:** USDA, EU Organic, COR
- **Non-GMO:** Non-GMO Project Verified
- **Safety:**
 - **Heavy Metals:** ICP-MS (Pb/Cd/As/Hg < USP limits)
 - **Mycotoxins:** Aflatoxin B1 < 1ppb
 - **Pesticides:** 524-residue screen non-detect
- **Activity Validation:**
 - **Polysaccharides:** Phenol-sulfuric acid (AOAC 999.03)
 - **Astragaloside IV:** HPLC-ELSD (EP 10.0)
 - **Telomerase:** TRAP assay (human PBMCs)

Why Choose Us

Bioactive Precision

- **Strain-Specific Sourcing:** *A. membranaceus var. mongholicus* (highest astragaloside yield)
- **Isomer Optimization:** ≥40% cycloastragenol (active astragaloside metabolite)

Advanced Delivery Systems

- Water-soluble micelles for 90%+ oral bioavailability
- **Liposomal Option:** 3x enhanced cellular uptake

Sustainability Commitment

- **Zero-Waste Extraction:** Spent biomass → organic compost
- **Carbon-Negative Processing:** Solar-powered cryoconcentration

FAQs

Q: What are the primary active compounds in Organic Astragalus Extract Powder?

A: The main active compounds are **polysaccharides**, which are largely responsible for its immune-modulating effects, and **saponins**, particularly **astragalosides**, which contribute to its adaptogenic properties. Flavonoids also offer antioxidant benefits.

Q: Is Organic Astragalus Extract Powder a true adaptogen?

A: Yes, Astragalus (*Astragalus membranaceus*) is widely classified as an **adaptogen** due to its ability to help the body adapt to various physical and mental stressors, promoting balance and resilience without overstimulating or inhibiting vital functions.

Q: What is the typical shelf life and recommended storage for bulk quantities?

A: Our **Organic Astragalus Extract Powder** typically has a shelf life of **24-36 months** from the manufacturing date when stored in a cool, dry place, away from direct sunlight and moisture, in its original sealed, airtight packaging.

Q: Is your Organic Astragalus Extract Powder non-GMO and allergen-free?

A: Yes, as a certified organic product, our **Organic Astragalus Extract Powder** is inherently **Non-GMO**. It is also naturally free from most common allergens like gluten, dairy, soy, and nuts, making it suitable for broad application in "free-from" products.

Q: Can this extract be used in hot beverages or formulations requiring heat?

A: Yes, Astragalus extract is generally **stable under heat** and typical processing conditions, making it suitable for use in hot beverages, soups, and other formulations requiring heating without significant loss of efficacy.

Packing



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

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