

Organic Broccoli Powder



What is organic broccoli powder?

Organic Broccoli Powder is crafted from freeze-dried whole florets of *Brassica oleracea* grown on certified organic farms. Low-temperature processing preserves **≥2.0% glucosinolates** (including glucoraphanin), **≥0.5% sulforaphane potential**, and **≥25% dietary fiber**. This nutrient-dense powder delivers concentrated cruciferous benefits for functional foods, supplements, and detox formulations.

Specifications

Parameter	Standard Powder	High-Activity Powder
Source	Whole broccoli florets	Same + sprouts (3:1 ratio)
Processing	Freeze-dried <45°C + milled	Cryogenic milling <40°C

Parameter	Standard Powder	High-Activity Powder
Glucosinolates	≥2.0% (HPLC)	≥3.5%
Sulforaphane Potential	≥0.5% (with myrosinase)	≥1.2%
Dietary Fiber	≥25%	≥20%
Vitamin C	≥300mg/100g	≥250mg/100g
ORAC Value	≥1,500 μmol TE/g	≥2,500 μmol TE/g
Moisture	≤6%	≤5%
Particle Size (D90)	≤150μm	≤80μm
Color/Flavor	Vibrant green / Earthy	Bright green / Milder
Solubility	Partial (ideal for blending)	Improved dispersion
Heavy Metals	Pb<0.1ppm, Cd<0.05ppm	Same

Key Highlights

- **Detox Power:** Glucoraphanin → sulforaphane activates Nrf2 pathway
- **Antioxidant Boost:** 50g powder = 500g fresh broccoli benefits
- **Immune Support:** ↑ Glutathione synthesis & NK cell activity
- **Non-GMO:** Certified organic cultivation, no pesticides

Key Features & Benefits

1. Cellular Defense

- **Sulforaphane Activation:**
 - Upregulates phase II detox enzymes
 - Protects against oxidative stress (ORAC 2,500+)
- **DNA Protection:** ↓ 8-OHdG biomarker by 40%

2. Metabolic & Digestive Health

- **Gut Microbiome:** Prebiotic fiber feeds *Bifidobacteria*

- **Liver Support:** ↑ Glucuronidation for toxin clearance
- **Blood Sugar Control:** Alpha-lipoic acid content

3. Functional Versatility

- **Flavor Masking:** Debittered version for smoothies/RTD beverages
- **Color Retention:** Chlorophyll stabilizes green hues
- **Texture Enhancement:** Binds moisture in baked goods

4. Clean-Label Nutrition

- **Whole-Food Matrix:** Retains co-factors for bioavailability
- **Vegan/Allergen-Free:** No soy, dairy, gluten

Applications

Industry	Use Cases	Usage Level
Supplements	Detox capsules, green superfood blends	500–2000mg/day
Functional Foods	Protein bars, veggie crackers, pasta	3–10% by weight
Beverages	Green smoothie bases, shots	1–3%
Infant & Toddler	Veggie-enhanced formulas	2–5%
Pet Nutrition	Antioxidant boosts for kibble	1–4%
Sauces & Dips	Pesto, hummus, dressings	1–5%
Beauty Foods	Skin-health gummies/collagen blends	0.5–2%

Certifications & Quality Assurance

- **Organic:** USDA, EU Organic, JAS
- **Non-GMO:** Non-GMO Project Verified
- **Safety:**
 - Pesticides (500+ residues non-detect)
 - Mycotoxins (ochratoxin A <2ppb)

- Pathogens (*Salmonella*/E. coli absent/25g)
- **Activity Validation:**
 - Sulforaphane yield assay (with myrosinase activation)
 - Glucoraphanin quantification (HPLC-MS)
 - ORAC (ISO 23349)

Why Choose Us

Nutrient Optimization

- **Myrosinase Protection:** Low-T processing preserves enzyme activity
- **Sprout Synergy:** High-activity blend with sulforaphane-rich sprouts

Sustainable Sourcing

- **Regenerative Farming:** Increases soil organic matter
- **Zero Waste:** Stems/leaves → compost; wastewater → biogas

Technical Innovation

- **Activated Form:** Optional sulforaphane-rich powder ($\geq 0.5\%$ active)
- **Flavor Masking:** Natural enzyme deodorization

FAQs

Q: How to activate sulforaphane in the powder?

A: Add myrosinase enzyme (e.g., from radish powder) and water. We offer pre-activated versions.

Q: Can it replace fresh broccoli in recipes?

A: Yes! Use 1 tsp powder $\approx$ 30g fresh broccoli (adjust for flavor intensity).

Q: Is it safe for pets?

A: Yes – supports joint and immune health in dogs/cats. Avoid for thyroid-sensitive pets.

Q: MOQ for private labeling?

A: 500kg for custom branding; 50kg for standard packaging.

Packing



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

[View Product Page: Organic Broccoli Powder](#)