

# Organic Broccoli Powder



## What is organic broccoli powder?

**Organic Broccoli Powder** is produced from 100% freeze-dried organic broccoli florets (*Brassica oleracea*), preserving its natural nutrients, including **sulforaphane precursors** (glucoraphanin), antioxidants, and dietary fiber. This vibrant green powder is a versatile ingredient for enhancing the nutritional profile of health-focused products.

## Key Highlights

### 1. Nutrient Density:

1. **Sulforaphane Precursors:**  $\geq 1.2\%$  glucoraphanin (converts to sulforaphane upon activation).
2. **Vitamin C:**  $\geq 150\text{mg}/100\text{g}$  (supports immune function).
3. **Dietary Fiber:**  $\geq 20\%$  (supports digestive health).

### 2. Clean Processing:

1. Freeze-dried to retain 95%+ nutrients; no carriers, additives, or preservatives.

2. Non-GMO, vegan, and allergen-free (gluten/soy/nut-free).

3. **Functional Versatility:**

1. Neutral flavor profile; easily blends into sweet or savory formulations.

## Specifications

Parameter	Details
Source	Organic broccoli florets (USA/EU farms)
Processing	Freeze-dried, nitrogen-milled
Glucoraphanin	≥1.2% (HPLC)
Vitamin C	≥150mg/100g
Dietary Fiber	≥20%
Moisture	≤6%
Solubility	Partially soluble (ideal for solids)
Particle Size	80-120 mesh (adjustable to 200 mesh)
Packaging	25kg kraft bags with oxygen absorbers
Shelf Life	24 months

**Custom Options:**

- **Activated Sulforaphane:** Enzyme-treated for immediate bioavailability.
- **Blends:** Pre-mixed with kale, spirulina, or turmeric.
- **Fortification:** Added vitamin K (for bone health) or probiotics.

## Applications

- **Supplements:**
  - Capsules, tablets, and powdered greens for detox support.
- **Functional Foods:**

- Added to soups, pasta, protein bars, and gluten-free snacks.
- **Infant Nutrition:**
  - Nutrient-dense additive for organic baby food.
- **Pet Health:**
  - Antioxidant-rich ingredient for dog/cat food formulations.

## Certifications & Quality Assurance

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- **Organic:** USDA, EU 834/2007, Canada Organic.
- **Purity:** Heavy metals (Pb <0.1ppm, As <0.05ppm), pesticide-free.
- **Microbial:** Total plate count <10,000 CFU/g; no E. coli/Salmonella.

## Why Choose Us?

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### 1. **Nutrient Optimization:**

1. Adjust glucoraphanin content (1-3%) and particle size (80-200 mesh).
2. Activate sulforaphane post-processing for ready-to-use bioavailability.

### 2. **Speed to Market:**

1. 5-day sample turnaround with 3 formula revisions.
2. MOQ 50kg for bulk orders; 1kg for R&D trials.

### 3. **Sustainability:**

1. Solar-powered freeze-drying; compostable packaging options.

## FAQs

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### **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**

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