

Organic Stachyose Powder



What is Organic Stachyose Powder?

Organic Stachyose Powder is a high-purity, plant-based prebiotic carbohydrate extracted from organic legumes (e.g., *Stachys sieboldii* or non-GMO soybeans). With $\geq 95\%$ stachyose content, this water-soluble fiber selectively feeds beneficial gut bacteria like *Bifidobacteria* and *Lactobacilli*, making it a cornerstone for digestive wellness and functional food innovation.

Key Highlights

1. Prebiotic Efficacy:

1. **$\geq 95\%$ Stachyose Purity** (HPLC): Stimulates growth of beneficial gut microbiota.
2. **Low Caloric Value:** 2 kcal/g – ideal for low-GI and diabetic-friendly formulations.

2. Health Synergy:

1. **Mineral Bioavailability:** Enhances calcium and magnesium absorption by 15-20%.

2. **Immune Modulation:** Reduces pathogenic bacteria (e.g., *Clostridium* spp.) via competitive exclusion.

3. **Clean & Versatile:**

1. USDA/EU Organic certified, non-GMO, gluten-free, and allergen-free.
2. Neutral taste, heat-stable (up to 160°C), and fully water-soluble.

Specifications

Parameter	Details
Source	Organic <i>Stachys sieboldii</i> or soybeans
Extraction Method	Hot water extraction, ion exchange purification
Appearance	White crystalline powder
Purity	≥95% stachyose
Moisture	≤5%
Solubility	Fully soluble in water (≥98%)
Particle Size	80-120 mesh
Caloric Value	2 kcal/g
Shelf Life	24 months (stored in cool, dry place)

Key Applications

• **Functional Foods:**

- Prebiotic bars, low-GI cereals, and plant-based yogurts.

- Synbiotic blends (combined with *Bifidobacterium* or *Lactobacillus* strains).
- **Dietary Supplements:**
 - Gut health capsules, chewable tablets for children.
 - Elderly nutrition formulas to enhance mineral absorption.
- **Infant Nutrition:**
 - Organic baby formula to mimic prebiotics in breast milk.
- **Animal Feed:**
 - Poultry/pet food additive for gut microbiome optimization.

Certifications & Quality Assurance

- **Organic:** USDA, EU 834/2007, JAS.
- **Non-GMO:** Verified by the Non-GMO Project.
- **Purity:** Heavy metals (Pb <0.1ppm, As <0.05ppm), pesticide-free.
- **Microbial Safety:** Total plate count <1,000 CFU/g; *E. coli*, *Salmonella* absent.

Why Choose Us?

- **Clinical Backing:** Supported by 10+ peer-reviewed studies on gut microbiota modulation.
- **Custom Solutions:** Adjust purity (90-98%), carrier agents (e.g., acacia fiber), or blends (e.g., stachyose + inulin).
- **Sustainability:** Sourced from regenerative organic farms; zero synthetic solvents.
- **Global Compliance:** Meets FDA GRAS, EFSA, and China NHFPC standards.

FAQs

Q: How does stachyose differ from FOS (fructooligosaccharides)?

A: Stachyose has a unique α -galactose structure, which is slower to ferment, reducing gas/bloating compared to FOS.

Q: Is it safe for lactose-intolerant individuals?

A: Yes! Stachyose is unrelated to lactose and safe for lactose-intolerant users.

Q: Recommended daily dosage?

A: 3-5g/day for adults; start with 1g/day to assess tolerance.

Q: Can it be used in baked goods?

A: Yes! Stable up to 160°C, ideal for cookies, breads, and granola.

Packing



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

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