

Organic Ginger Extract Powder



What is Organic Ginger Extract Powder?

Organic Ginger Extract Powder (*Zingiber officinale Roscoe*) is a 10:1 water extract from certified organic ginger roots. Produced via low-temperature concentration (<50°C), it delivers $\geq 15\%$ active gingerols and shogaols with full-spectrum bioavailability. Customizable for bioactive ratios and functional properties.

Specifications

Parameter	Standard	Customization
Extraction Ratio	10:1 (equivalent to 100g root/g)	Adjustable 5:1 to 20:1

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Gingerol Content	≥15% (HPLC)	Target-specific calibration (10-25%)
Appearance	Fine light-beige powder	Color-matching ($\Delta E \leq 3$)
Solubility	Water-soluble (>90%)	Liposomal encapsulation option
Particle Size	100% < 80µm	Micro-nization (1-20µm)
Loss on Drying	≤5%	<3% ultra-dry variant

Key Features & Benefits

- **Potency Guaranteed:** >15% gingerols (HPLC-verified) with shogaol-to-gingerol ratio <0.4
- **Clean Extraction:** Ethanol-free aqueous process • Residual solvents undetectable
- **Bioavailability:** Enhanced absorption vs. raw powder • Clinical-grade efficacy
- **Functional Customization:**
 - Cold-water solubility enhancement
 - Oxidative stability treatment (extend shelf life by 40%)
 - Flavor masking for oral applications
- **Allergen-Free:** Non-GMO • Gluten/dairy/nut-free • Kosher/Halal compliant

Applications

Industry	Use Cases
Nutraceuticals	Anti-inflammatory capsules • Motion sickness formulas • <i>Ginger Immune Gummies</i>

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Functional Foods	Digestive wellness bars • Functional beverages • <i>Ginger-Infused Chocolates</i>
Cosmeceuticals	Anti-aging serums (<i>Gingerol Actives</i>) • Scalp-stimulating treatments
Animal Health	Equine joint support powders • Pet digestive aids

Certifications & Quality Assurance

- **Organic:** USDA • EU Organic (full documentation available)
- **Safety:** FDA GRAS • EFSA Novel Food compliant • ISO 22000
- **Purity Testing:**
 - Heavy Metals: Pb≤0.1ppm • As≤0.5ppm • Cd≤0.05ppm
 - Microbes: Salmonella spp. absent
- **Bioactivity:** Third-party HPLC/LC-MS verification (gingerol/shogaol profiles)

Analytical Documentation Includes:

- HPLC chromatograms (gingerol/shogaol quantification)
- ICP-MS heavy metal reports
- Water Activity (a_w) certificates
- Allergen statements (ISO 21468)
- Customization validation protocols per request

Why Partner With Us?

1. Source Integrity

- Direct from organic farms (India/Peru) with geolocation traceability
- DNA barcoding (*matK gene*) for botanical authentication

2. Technical Precision

- Customized extract ratios (5:1 - 20:1) with bioactive optimization
- Functional modifications: instant solubility • heat-stable formulations

3. Regulatory Support

- Dossier preparation for FDA/EMA submissions
- COAs with batch-specific bioactive quantification

4. Supply Chain Reliability

- 5-ton monthly capacity • 98% on-time delivery
- Nitrogen-flushed foil bags (moisture <5% at receipt)

FAQs

Q: Solubility in acidic beverages?

A: Custom colloidal stabilization available (pH stable at 2.5-4.0).

Q: Minimum custom order quantity?

A: 10kg for target-specific bioactive profiles.

Q: Gingerol degradation during storage?

A: <5% loss over 24 months with proprietary O₂ scavenger packaging.

Packing



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

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