



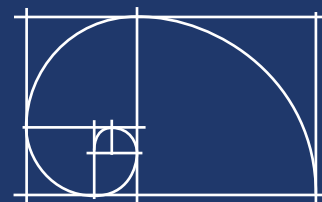
LipoOrganiSil™

Liposomal Silicon

PRODUCT INFORMATION

Liposomal Silica

1.888.55VESTA



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Vesta Ingredients has been a leader in the nutraceuticals industry for over 30 years. The superior quality of Vesta Brand's raw ingredients has ensured the success of our clientele.



LipoOrganiSil™

Liposomal Silicon



Vesta®

What is LipoOrganiSil™?

LipoOrganiSil™ is our proprietary formulation of a silicon supplement built upon our LipoQuest™ liposomal technology platform. LipoOrganiSil™ is designed to stabilize and deliver bioavailable dietary silicon. The precursor, mesoporous silica nanoparticles, converts to orthosilicic acid (OSA) — the only bioavailable form of silica — upon reaching the small intestine, providing systemic exposure to connective tissues.

What do the Preclinical Data Reveal?

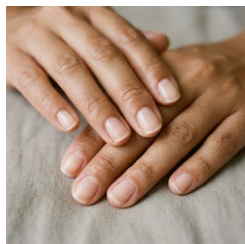
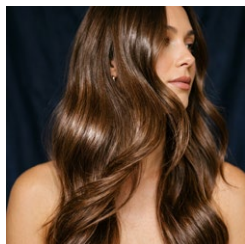
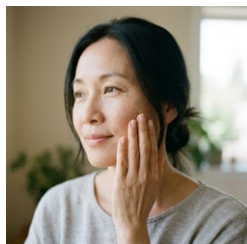
Our *in vitro* data show that, when compared to two products currently on the market, LipoOrganiSil™ excels in the total Si delivered and the bioactive Si available inside cells.

Our *in vivo* study has demonstrated a similar result: oral administration of our product produced a measurable increase in plasma silicon (Si) levels in rats within hours.

What are the Benefits of LipoOrganiSil™?*

Silicon is necessary for the synthesis of collagen and elastin. The collagen acts as a scaffold that provides support to the tissues.

- Boosts facial skin hydration and elasticity
- Strengthens hair and nails
- Supports bone strength, joints, and mobility



*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

www.vestaingredients.com

www.lipoorganisil.com



Vesta®

Vesta Ingredients, Inc.



LipoOrganiSil™
Liposomal Silicon



Vesta Nutra®

What is LipoOrganiSil's Mechanism of Action?

LipoOrganiSil™ addresses the challenges faced by other silicon supplements through a targeted, three-phase delivery sequence at the formulation level.

Phase 1: LipoOrganiSil™ is manufactured and stored as a dry "pro-liposome" powder with minimal moisture content, limiting premature hydrolysis and polymerization and ensuring maximum potency.

Phase 2: Upon ingestion, the lipid excipients spontaneously self-assemble into protective liposomes in the stomachs. During assembly, these bilayer vehicles encapsulate the OSA precursor, shielding it from the degrading acidic environment.

Phase 3: Upon reaching the small intestine, the liposomes fuse with the mucosal cell membranes, releasing their payloads. The precursor then hydrolyzes, providing a steady supply of OSA. Some of OSAs enter the bloodstream and reach target tissues — including skin, nails, hair, and bones — producing systemic exposure.

What are the Specifications of LipoOrganiSil™?

- White to off-white crystalline powder
- Dose: 224 mg / day (equivalent to 14 mg of elemental Silicon)
- Form: Capsules, sachets, or bulk powder
- Packaging: UV-protective bags
- Water dispersible

Why LipoQuest™ LipoOrganiSil™?

- High bioavailability
- No stabilizer required
- Well-tolerated safety profile
- Extensive research profile



Innovative products at a
competitive price™

SPECIALTY INGREDIENTS



cGMP-Certified



nongmoproject.org



Kosher Certified



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