



LipoOrganiSil™

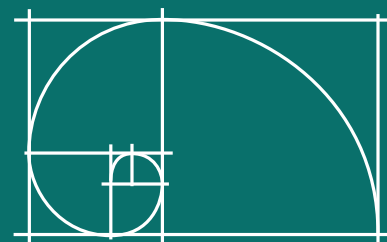
Liposomal Silicon

THE NEXT GENERATION OF
LIPOSOMAL BIOACTIVE SILICON

PRODUCT INFORMATION

Liposomal Silicon

1.888.55VESTA



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What is LipoOrganiSil™?

LipoOrganiSil™ is a best-in-class silicon dietary ingredient newly developed by Vesta.

The Challenge: Orthosilicic acid (OSA) is the only form of silicon the body can easily absorb to build collagen and elastin. However, unbound OSA quickly clumps together into useless, unabsorbable silicates.

PREVIOUS Stabilized Complexes

OSA Stability Modification



Choline-stabilized OSA (ch-OSA) &
Methyl-stabilized OSA
(Monomethylsilanetriol, MMST)

! Organoleptic, stability, & dosing hurdles

NEXT-GEN LipoOrganiSil™

Pro-Liposomal Mesoporous Silica



MSN is encapsulated in liposome
for targeted OSA delivery

✓ Solid state, high silicon content, clean label

The Solution: LipoOrganiSil™ uses solid-state pro-liposomal technology to solve this. By wrapping mesoporous silica nanoparticles (MSN) in a moisture-controlled lipid matrix, LipoOrganiSil™ provides shelf stability and delivers pure OSA directly to the cells that need it.

LipoOrganiSil™ Benefits*

Silicon is necessary for collagen and elastin synthesis,
which promotes connective tissue strength



Supports bone
density and joint
strength



Boosts nail
strength and
resilience



Boosts skin
hydration, firmness,
and elasticity



Supports hair
strength and
elasticity

*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®





LipoOrganiSil™
Liposomal Silicon



Vesta Nutra

The Next-Generation Advantage:

Legacy products suffer from low silicon payloads (~1-2%), pungent taste and odors, and liquid-only formats. LipoOrganiSil™ eliminates these drawbacks.

- **High-silicon-content:** Delivers a standardized 14 mg of elemental silicon.
- **Versatile Format:** A free-flowing powder perfect for capsules, tablets, sachets, and drink mixes.
- **Clean Profile:** Neutral taste and odor.
- **Stomach Survival:** The lipid shield prevents breakdown in harsh stomach acid.
- **Maximum Absorption:** Liposomal delivery achieves higher cellular uptake compared to standard silicon.

Data Validating LipoOrganiSil™:

- **In Vitro.** In cell-based assays, LipoOrganiSil™ demonstrated up to a 2x increase in silicon absorption compared to two legacy products.
- **In Vivo:** Oral administration of LipoOrganiSil™ in rodent studies confirmed a rapid, significant rise in blood silicon levels within hours of ingestion.

LipoOrganiSil™ Technical Specifications & Safety:

- **Source:** Food-grade amorphous mesoporous silica
- **Delivery:** Non-GMO sunflower phospholipids
- **Format:** Pro-liposomal powder suitable for capsules, tablets, stick packs, and drink mixes
- **Dispersibility:** Cold-water dispersible without clumping
- **Safety:** GRAS (FDA) and EFSA recognized

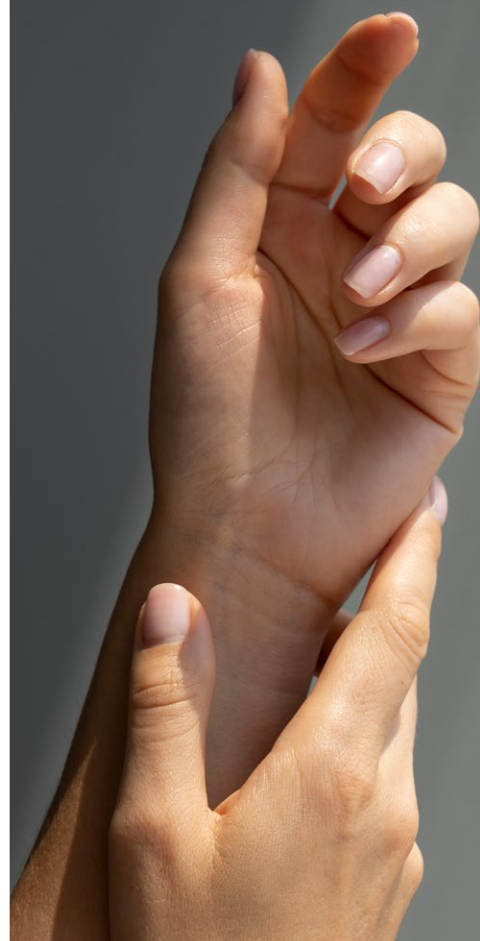
Innovative products at a
competitive price™
SPECIALTY INGREDIENTS



LipoQuest®
by Vesta Nutra

Other LipoQuest® Products:

- Liposomal Pearl Tomato®
- Liposomal Glutathione
- Liposomal Iron Bisglycinate



SCIENCE. QUALITY. TRUST.



Vesta®

Vesta Ingredients, Inc.

5767 Thunderbird Rd.
Indianapolis, IN 46236 USA
Phone: 317.895.9000
info@vestaingredients.com
www.vestingredients.com

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