

Marine mineral innovations



Bioactive red algae calcium

Source & sustainability: Harvested sustainably from Lithothamnion calcareum, a calcified red seaweed found in cold Atlantic waters. More than 32% of Calcium in two forms (calcite and aragonite) and more than 2% Magnesium along with 71 trace elements

Mechanism of action: Features a highly porous, honeycomb-like physical structure. This macro-porosity provides a large surface area that acts as a natural, progressive antacid to buffer physiological gastric pH without causing sudden acid rebounds.

Key benefits:

- Delivers highly bioavailable calcium and magnesium.
- Neutralizes excess stomach acid to balance acid reflux.
- Supports long-term bone and joint mineral density.

Application profile: Neutral taste and off-white color. Ideal for clean-label tablets, capsules, powder sachets, and functional beverages
Available in two particle sizes depending on the final applications: 25 microns and 150 microns.



Low-sodium marine trace minerals

Source & sustainability: Extracted via eco-friendly processing from the French sea salt harvesting.

Composition: A natural, clean-label marine powder supplying 22 minerals and essential trace elements. Having a high content of magnesium and silicon, but uniquely low in sodium chloride.

Key benefits:

- Cell vitality: Replenishes essential cellular cofactors.
- Cardiometabolic health: High magnesium-to-sodium ratio supports healthy blood pressure and metabolic function.
- Bone support: Silicon works synergistically with minerals to promote collagen cross-linking and bone strength through the osteoblasts.

Application profile: 100% soluble, clean-label mineral concentrate suitable for electrolyte mixes, ready-to-drink, and functional foods.



Gastroresistant probiotic shield

Composition: A globally patented co-processed excipient matrix consisting of overdried Lithothamnion and pregelatinized corn starch.

Mechanism of action: First, Algalithe P balances pH and significantly covers water activities (aW) in probiotic formulations. Second, upon entering the stomach, it engineers a phase-changing, two-phase protective gel barrier due also to the low aW. This barrier encapsulates and shields delicate live probiotic strains from harsh gastric acid. Once it reaches the neutral pH of the intestines, the gel naturally dissolves to release the live bacteria safely.

Key benefits:

- Maximizes the survival rate of live probiotic strains during digestion.
- Lowers production costs by eliminating the need for massive "probiotic overages" (adding extra live bacteria to compensate for losses).
- Enhances shelf-life stability of moisture-sensitive formulations.

Application profile: Specifically optimized as a functional direct-compression or capsule excipient for advanced probiotic deliveries. Also, performs well in sachets and stick-packs.



Synergistic formulation opportunities

Bone, joint & dental health

Algalithe® + Pine D3 + Nutraquinone®
For a comprehensive, highly stable bone and cardiovascular wellness product. The three together complete the Bone Health Triangle.

Active nutrition, performance & recovery

Clear Pea Protein Peptides + Oselan
For crystal-clear, refreshing, and allergen-free recovery drinks.





Advanced plant-derived vitamins



Ultra-stable vegan vitamin D3

Source & sustainability: 100% plant-derived and sustainably sourced from sterols from Pine Tree Bark, serving as a direct alternative to animal-derived lanolin (sheep's wool).

Mechanism of action: Embedded within an advanced protective matrix that isolates the cholecalciferol molecules. This prevents degradation caused by light, air, and heat.

Key benefits:

- Regulates calcium and phosphorus absorption for bone and dental maintenance.
- Triggers systemic immune defenses and modulates inflammatory pathways.
- Offers superior stability against oxidation and thermal processing compared to standard lichen.

Application profile: Excellent for challenging food processing conditions, baking, clear liquids, and premium vegan supplements. Available in powder and oil form.

Nutraquinone

Vitamin K2 MK-7 Evolution



Ultra-pure vitamin K2 (MK-7)

Composition: Premium Menaquinone-7 (MK-7) certified at 99.9% or greater purity, featuring a superior "all-trans" geometric configuration.

The "cis" isomers found in low-quality K2 are biologically inactive; Nutraquinone® ensures virtually 100% active "trans" molecules.

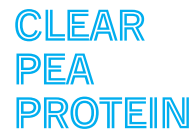
Mechanism of action: Activates specific proteins like Osteocalcin (which binds calcium to the bone matrix) and Matrix Gla Protein (MGP, which inhibits calcium buildup in blood vessels).

Key benefits:

- Cardiovascular safety: Prevents arterial calcification by directing calcium away from arteries.
- Bone optimization: Maximizes the skeletal benefits of calcium and Vitamin D3.

Application profile: Exceptional structural stability in complex formulations, especially when blended with aggressive minerals like calcium or magnesium. Available in powder and oil form.

Functional plant proteins



Crystal-clear pea protein

Silky smooth and creamy, Whey-like mouthfeel

Source & sustainability: Upgraded from Grade A Canadian yellow peas, refined into two formats.

Via targeted, eco-friendly enzymatic hydrolysis	Via fine mechanical milling.
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Composition: An advanced texturizing innovation boasting an 85% protein content, broken down into low-molecular-weight peptides.

Completely transparent, clear liquid. Zero cloudiness or milkiness.	Creamy, opaque, milky beverage. It is also fermented, making it the only truly fermented Pea Protein 85% available on the market.
Water/juice-like viscosity; no gritty or chalky texture.	Smooth, creamy body with added thickness; no sandy mouthfeel despite the fine 200 mesh.
Enzymatic hydrolysis. Breaks protein into smaller peptide chains.	Mechanical milling. Ultra-fine filtration to ~75 microns (200 mesh).
Fruity RTDs, protein waters, clear powder shakes, isotonic sports drinks.	Meal replacement shakes, creamy smoothies, plant-based milks, standard chocolate/vanilla powders.
Pre-broken peptide chains for fast, easy digestion.	Standard digestion rate of an intact, native protein isolate.

Mechanism of action: The fundamental difference is processing, not the pea itself.

Undergoes enzymatic hydrolysis, breaking intact protein molecules into smaller peptide chains that dissolve fully instead of aggregating and scattering light; staying soluble and stable even in acidic, low-pH beverages.	A native isolate simply milled to an ultra-fine 200 mesh screen: the protein structure stays intact, so it forms a smooth, creamy, opaque dispersion that adds body but does not perform as well in highly acidic liquids.
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Key benefits:

- Dissolves completely translucent clear without leaving a gritty or chalky mouthfeel.
- Features a highly neutralized taste profile with minimal native pea flavor or color.
- Provides a clean-label, allergen-free plant protein boost.

Application profile:

Perfectly adapted for clear Ready-To-Drink (RTD) beverages, protein waters, isotonic sports drinks, and clear powder shakes	Suits traditional meal replacement shakes, creamy smoothies, plant-based milks, and standard flavored (chocolate/vanilla) protein powders.
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Digestive health & gut wellness



Bone, joint & dental health



Cardiovascular & cardiometabolic health



Immunity & cellular vitality



Active nutrition, performance & recovery

