

OCEANBOOST™ LF

A Breakthrough
Marine Bioactive
for Gut, Immune &
Cellular Wellness



OCEANBOOST™ is a high-purity ($\geq 80\%$) fucoidan extracted from invasive Sargassum natans-fluitans using Origin by Ocean's patented biorefining technology. While Origin by Ocean's own studies are underway, extensive global fucoidan literature supports its potential.

Origin by Ocean does not yet make ingredient-specific claims; these mechanisms reflect existing peer-reviewed fucoidan science.



INCI: FUCOIDAN | APPEARANCE: OFF-WHITE POWDER |
ODOUR: NEUTRAL, NO OCEANIC NOTES

- **Immune function support** via interaction with immune cell receptors
- **Anti-inflammatory pathways**, relevant for tissue comfort and chronic inflammation
- **Cellular defense**, including modulation of antioxidant systems
- **Gut & gastric support**, including microbiome balance and anti-adhesion activity
- **Prebiotic activity**, supporting SCFA production
- **Healthy aging** tied to cellular defense, immune balance, and metabolic wellness

REGULATORY DEVELOPMENT PATHWAY

REGULATORY

Functional Bioactivity Studies (Q1 2026)
Assess available toxicological and safety data

Toxicological & Safety Testing (Q3 2026)
Test for missing data needed for regulatory compliance

GRAS/NDIN Application (Q1 2027)
Apply for GRAS or NDIN with the FDA

FDA Approval (Q2 2027)
Gives clearance to use OCEANBOOST™ in nutraceuticals

TESTING

in-vitro performance screening (Q1 2026)
immunomodulation, AOX, anti-obesity, antiproliferative

in-vitro Gut Health/Inner-Outer Beauty study (Q2/Q3 2026)
SCFA production, gut health effect on skin health

in-vitro Longevity Claim (Q2/Q3 2027)
OCEANBOOST™ effect on SIRT6 and longevity markers

CLAIMS VALIDATION

in-vivo Inner-Outer Beauty (Q1/Q2 2027)
Complement in-vitro data with clinical trial

in-vivo Health Claims (Q2/Q3 2027)
Complement in-vitro data with clinical trial

STRATEGIC PARTNERSHIP OPPORTUNITIES

Sampling & pilot quantities available now, FOAK facility operational in 2028.

Origin by Ocean is seeking partners for:

- Nutraceutical product development
- Regional distribution
- Regulatory co-development
- Multi-year offtake agreements



ORIGIN^{BY}OCEAN is a Finnish based innovative biotech company dedicated to transform invasive ocean overgrowth into high-performance, bio-based ingredients for cosmetics, personal care, and beyond. By leveraging regenerative innovation, the company delivers scalable, sustainable alternatives to fossil-derived chemicals—proving that ocean restoration can be a commercially viable and competitive advantage.

Partner With Us Now: Samples, technical support and future supply: sales@originbyocean.com