



# VERRATAIN™

Verified Sustainability Solutions

## Decarbonizing Animal Protein. Credibly. Measurably.

Livestock, poultry and aquaculture supply chains are under growing pressure to reduce greenhouse gas emissions while continuing to deliver affordable, high quality nutrition.

*Verratain nutritional feed ingredients are developed to meet exactly this challenge.*

### What is Verratain?

Verratain™ Verified Sustainability Solutions are next-generation nutritional feed ingredients with **net-negative life-cycle emissions**, designed for animal production systems across dairy, beef, poultry, swine and aquaculture.

When incorporated into animal diets as a source of nutrients, Verratain enables producers to **reduce the carbon intensity of feed**, without compromising animal performance, feed efficiency, or operational simplicity.

Unlike offset-based or book and claim approaches, feeding Verratain as a low carbon alternative nutrient source delivers **embedded, supply chain emissions reductions**, enabling credible Scope 3 accounting.



### Why Verratain is Different

#### Verified Sustainability – Not Marketing Claims

Verratain is built around **transparent carbon accounting and independent, third-party verification**:

- Greenhouse gas impacts are **measured, documented, and third-party verified**
- Accounting aligned with **GHG Protocol principles and Scope 3 reporting requirements**
- Designed to support **SBTi-aligned decarbonization pathways**
- Documentation suitable for **audit, assurance, and regulatory disclosure**

**Real reductions. Real data. Real credibility.**





## How Emissions are Reduced

Verratain solutions are produced through an integrated system that combines:

- **Renewable geothermal energy** for cultivation and processing
- **Ultra efficient indoor production, decoupled from land use change** and freshwater constraints
- A **biostimulant co-product** applied to non-arable land that increases **soil organic carbon (SOC)**

The result is products with **net-negative cradle-to-gate greenhouse gas emissions**, based on a **verified life cycle assessment**.

## Verratain is Designed For:

- **Livestock, poultry and aquaculture producers** with Scope 3 commitments
- **Integrated protein companies** reporting under ESG and climate disclosure frameworks
- **Sustainability leaders** seeking audit ready solutions
- **Feed and nutrition partners** supporting low carbon animal protein strategies
- **Companies preparing for more stringent climate disclosure** and assurance requirements
- **Companies facing emissions reductions pressure** from downstream customers



### Lower Carbon Intensity at the Feed Level

Feed inputs are among the largest contributors to **Scope 3 emissions** across animal protein systems.

Feeding **Verratain** as a nutrient source enables:

- Lower life-cycle assessment (LCA) CO<sub>2</sub>e per unit of animal protein produced



### Built for Commercial Production Systems

Sustainability solutions only matter if they work at commercial scale.

Verratain Verified Sustainability Solutions are:

- Compatible with **standard feed manufacturing and on-farm feeding practices**
- Designed for **commercial livestock, poultry and aquaculture production environments**
- Applicable across species and production systems
- Straightforward for producers to adopt and **straightforward for companies to account for in Scope 3 inventories**

**No changes to farming practices.**  
**No operational or reporting burden.**

*Not all products are available in all countries*

**VERRATAIN™**  
Verified Sustainable Solutions

**Because the future of animal protein depends on better—cleaner, safer, and more sustainable production.**

Contact your Phibro Representative or [verratrain@pahc.com](mailto:verratrain@pahc.com)