



VERRATAIN™

Verified Sustainability Solutions

Decarbonizing Animal Protein. Credibly. Measurably.

Livestock, poultry, aquaculture and petfood 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, aquaculture and petfood production.

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.





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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, aquaculture and petfood 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) CO₂e 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, aquaculture and petfood production environments**
- Applicable across species and production systems including petfood
- 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.

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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