

OvinAlp



Forward with biostimulants!



Innovation is the heart of our performance

Proposing rational fertilization, innovating for more efficient and sustainable agriculture...has been our business for 35 years.

Innovation is at the heart of our collective performance, whether we are manufacturers, distributors, or farmers. At OvinAlp, the desire to continually advance intensified in 2016 with the establishment of a service that brings together the innovation strengths and resources of OvinAlp. A new laboratory, staffed with biologists, chemists, and innovation and development funding experts, works in partnership with scientists, research centers, industries, and trial platforms (GEP or distribution), have made our

Research & Innovation Center
a true accelerator of innovation that serves our clients, perfectly meeting

the challenges of food sovereignty, the preservation of the health of cultivated soils, and biodiversity.

We want to offer to agriculture natural fertilization solutions with even more precision and efficiency.

Our Research & Innovation Center, in partnership with the Magma Laboratory, sets up field experiments with our partner farmers to test the effectiveness of our fertilizers before their release on the market. The results are analysed statistically and interpreted using various methods of soil analysis, plant, and harvested fruit/vegetable.

Our testing platform allows us to:

- Conduct proof of concept on new formulations by conducting trials in controlled conditions, in a climate chamber.
- Obtain results on field trials, on our own test plots, thanks to agricultural partners (vineyards, orchards, market gardening, and large crops) throughout France.
- Confirm these results through collaborations with organizations certified for Good Experimental Practices (GEP) when a New Drug Approval (NDA) is filed.

In partnership with public and private research organizations



Our products, given their natural origin, can be used by all types of agriculture (conventional, organic, biodynamic, zero pesticide residue, NOP...) according to current terms and regulations.

Biostimulants:

New technologies for precision adaptation to crop needs

In 2018, our initial work on identifying the microorganisms of our active ingredient Ov – renowned for high fertilization efficiency, in collaboration with the National Museum of Natural History in Paris and Professor Marc-André Selosse – allowed us to identify 370 species of fungi and 240 species of bacteria.

We have chosen, from this incredible biodiversity, to **select robust microorganisms (fungi and bacteria), all offering significant agronomic benefits, to multiply them using a unique solid biofermentation process developed by OvinAlp.** Their application helps improve soil health and fertility, optimize the assimilation of mineral elements for better nutrition, and enhance plant resistance.

DEFINITION

Biostimulants are fertilizers that stimulate the plant nutrition processes independently of the nutrients they contain, only to improve one or more of the following characteristics of the plants or their rhizosphere:

- the efficiency of nutrient use,
- tolerance to abiotic stress,
- quantitative and qualitative characteristics,
- and the availability of nutrients confined in the soil and the rhizosphere.

Definition from the European Commission (from the European Regulation 2019/1009 published in the Official Journal in June 2019, effective July 2022).



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technologies

have thus been developed and perfected by our Research & Innovation Center to meet precision requirements of sustainable and efficient agriculture.

Bacter-Perf-WP
AA-Perf-WP
Asco-Tech
Amino-Power

Technology

Bacter-Perf-WP

→ increase crop yields and protect, preserve, and regenerate soil health and life

These four microbial biostimulants, including **NITRIUM**, **A6MIL**, **K4LIBRE** and **D3STRESS** are derived from this technology. They are available in water-soluble powder form that can be applied to the soil, sprayed, or used as seed coatings or mixed with fertilizers.

These microbial biostimulants have been selected and identified to significantly improve agricultural crop production. They act on different levels by optimizing soil reserves, facilitating mineral assimilation by plants, helping them cope with various climatic changes, preserving cultivated soil health, and improving yields.

They can be used in "blocked" soils to release bioavailable fertilizing elements. Thus, they play a stimulating role on the plant at the root level, optimizing its nutrition. Ultimately, they restore some lost functions of the soil.

N1TRIUM

Improves nitrogen nutrition of the plant

A6MIL

Helps the plant to assimilate phosphorus and water

K4LIBRE

Helps the plant to assimilate potassium in blocked soils

D3STRESS

Allows the plant to be environmentally adapted

Microbial
Nitrogen
Phosphorus
Potassium
Mycorhization
Stress
Auxins

FORM

Water-soluble powder

PROCESS

Based on biostimulant microorganisms

APPLICATION

Fertigation and seed coating

PACKAGING

1 kg bag

Technology

AA-Perf-WP

→ feeding and protecting plants

The range of biostimulants **KAIZ (KAIZ' N: AMM n° 1221049 and KAIZ' NK: AMM n° 1220389)**, derived from this technology, offers all the agronomic advantages of liquid biostimulants, with the added benefit of a very high concentration of free amino acids thanks to its formulation as a water-soluble powder.

Amino acids, such as **glutamic acid and glycine**, will increase protein synthesis in plants and the storage of organic nitrogen in them. They will help improve quantitative (yields) and/or qualitative parameters (such as protein content in cereals, nitrogen in grape musts, etc.).

The products in the **KAIZ** range are also rich in proline and hydroxyproline, which are the amino acids involved in preparing plants for better resistance during stress periods, such as frost or drought.

The water-soluble powder form: huge advantages!

Perfect stability over time, less storage space needed (due to its higher concentration), no more storage or phase separation problems of liquid solutions related to temperature (freezing or high temperatures), no need for recycling and cleaning of containers, which saves time and money.



Non microbial
Amino acids
Potassium

KAIZ

FORM

Water-soluble powder

PROCESS

Based on amino acids and peptides derived from enzymatic hydrolysis of supplemented or non-supplemented micronized potassium epithelium

APPLICATION

Foliar and fertigation

CONDITIONNEMENT

10 kg bag / 500 kg PPH
20 kg bag / 700 kg PPH

Technology

Asco-Tech

→ stimulating the plant energy

The **VALG** biostimulant range derived from this technology is specifically designed to prevent or address crop needs that couldn't be corrected at the soil level. This can result from adverse climatic conditions affecting root nutrition, soil chemical characteristics, or antagonism between mineral elements exacerbated by imbalances.

We have also developed a seaweed extract powder (**Asco Energy, AMM n° 6230211**) that, when combined with mineral elements, promotes plant growth, enhances crop productivity and quality, and helps plants better defend against abiotic stresses (such as frost, drought, etc).

Asco-Tech technology is based on the development of expertise in extracting compounds of interest

Derived from *Ascophyllum nodosum* (a species of algae), these compounds, when combined with mineral compounds, stimulate growth and enhance the quality and productivity of crops sustainably.

The **alginates and mannitol** present in the **VALG** biostimulant range, extracted using Asco-Tech technology, play a crucial role in limiting oxidative compounds in plants, thereby reducing cell mortality under stress conditions.

The **VALG** biostimulant range is rich in **osmoprotectant compounds** that help retain water in cells through the accumulation of mineral salts. This positively affects plant turgor and contributes to improved physiological activity during periods of stress.



Non microbial
Algae

Phosphorus

Potassium

Oligo-elements

Photosynthesis

VALG

FORM

Liquid

PROCESS

Organo-mineral base with agronomic active ingredient (*Ascophyllum nodosum*)

APPLICATION

Foliar

PACKAGING

10 L cans / 600 L PPH

Technology

Amino-Power

→ stimulating the plant growth and development

The **KORI** biostimulant range (**AMM n° 1220389**), derived from this technology, consists of a wide range of free amino acids, all in the L-series, combined with peptides for maximum effectiveness.

This range is designed to prevent or respond to crop needs that couldn't be corrected at the soil level, whether due to adverse climatic conditions affecting root nutrition, soil chemical characteristics, or antagonism between mineral elements increased by imbalances.

Peptides, which are small chains of amino acids, act as catalysts in specific plant metabolic systems, influencing quality parameters such as organoleptic properties.



Non microbial
Amino acids
Phosphorus
Potassium
Oligo-elements

KORI

FORM

Liquid

PROCESS

Organo-mineral base with agronomic active ingredient (amino acids)

APPLICATION

Foliar

PACKAGING

10 L cans / 600 L PPH

OUR MISSION

- Support our clients in reducing carbon emissions
- Provide our partners with innovative, rational, and eco-responsible fertilization through precise, natural, and effective nutrition programs
- Serve sustainable and profitable agriculture for farms and future generations

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