



SFERA

COMPANY
PRESENTATION



PRIMARY CONCEPTS

WHO WE ARE

Sfera is a new company that produces and sell special products for animal and vegetable nutrition of the highest level.

The basic philosophy is based on innovation.

We are specialist in Research and Development in the field of natural compounds and microorganisms useful in agriculture and breeding

The property is 100% Italian.



Deep knowledge of raw materials and formulations in order to reach the best agronomical results.





RESEARCH AND DEVELOPMENT

RESEARCH AT THE SERVICE OF THE FARMER AND BREEDER

The search for new innovative, quality and environmentally sustainable products starts from the ever growing needs of productivity, quality and health of the agricultural world productions.



SUSTAINABLE RAW MATERIALS INNOVATIVE ENZYMATIC COMPLEXES - UNIQUE MICROBIAL STRAINS

The raw materials are selected on the basis of purity and quality, from which the primary compounds of our products derive. A key aspect of our research activity is the identification of innovative enzymatic complexes that allow us to obtain specific primary compounds. In the field of microorganisms, our products are based on strains selected and reproduced in Italy, in collaboration with the main national universities.

PRE-COMMERCIAL PHASE

Once the product has been made, a screening phase is carried out in the field, in order to assess the effectiveness of the formulation and its compliance with the needs of the farmer.



COMMERCIAL AND ASSISTANCE PHASE

Once the product becomes commercial, our activity continues alongside the producer thanks to the technical support service (field visits, targeted cultivation indications, specialized assistance)



Where do our raw materials come from?



Enzymatic Hydrolysis



Biostimulants
(Humic acids,
Fulvic acids,
amino acids,
algae extracts
etc.)

CHEMICAL HYDROLYSIS

High T° (>100°C)

Acid
(KCl-pH<3)

Alcalin
(KOH-pH>11)

Lignisulfonate
Amino Acids
Ac. Fulvici

Humic Acids
Algae
Plant extracts

The level of hydrolysis depends on time and temperature. Final product: mix of simple molecules (Amino acids, Humic acids etc.) The biostimulating effect depends only on the raw material

1 RAW MATERIAL



1 FINAL PRODUCT

ENZYMATIC HYDROLYSIS

Low T° (<40°C)

Enzymatic
(Ph = 6-8)

All the raw material

The level of hydrolysis depends on time and the quality of the enzymes. Final product: made to measure.
The biostimulating effect depends on the raw material and the type of enzyme.

1 RAW MATERIAL



DIFFERENT FINAL PRODUCTS



PRODUCTION

A close-up photograph of numerous small, light-colored, irregularly shaped granules.

MICROGRANULES

PRODUCTION WORKSHOPS

The production and formulation plants are specialized in the supply of specific products for agriculture, in compliance with environmental and safety standards.

Our production and packaging plants are all in Italy

A photograph showing a cloud of fine white powder being dispersed against a dark background.

SOLUBLE

POWDERS

A 3D digital rendering of various blue, rod-shaped and spherical microorganisms.

MICROORGANISM

A photograph of a liquid surface with a complex, swirling pattern of orange and yellow colors.

LIQUID

PLANTS



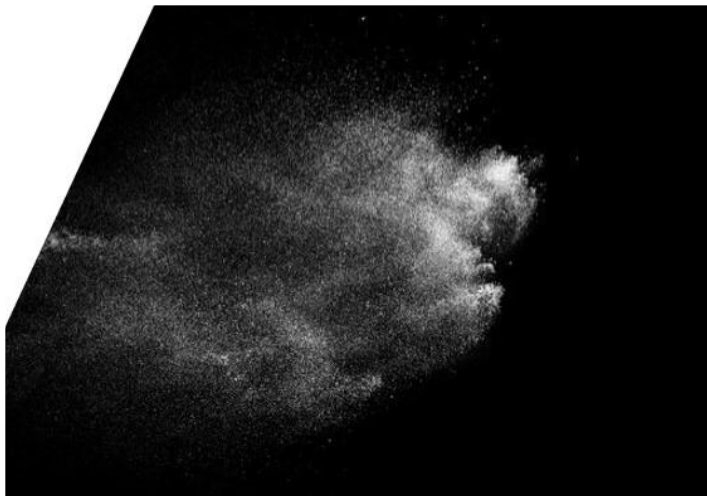
MICROGRANULES

Every granule has a constantly uniform size. Fundamental is the quality control, in order to avoid dust problems that can block the distribution pipes of the microgranulators.



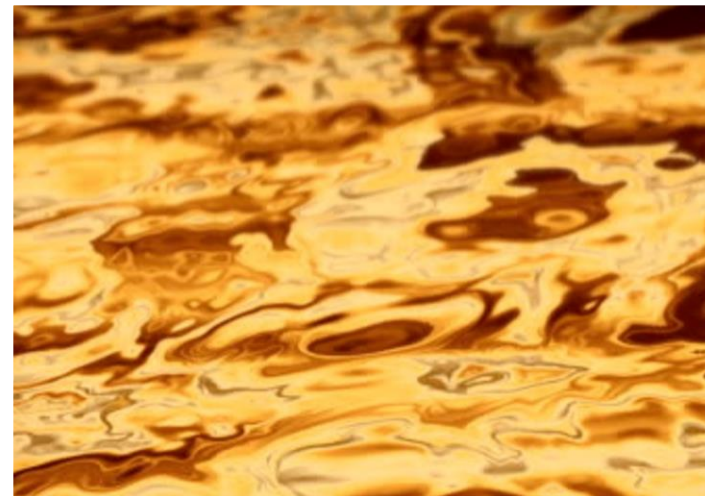
MICROORGANISMES

It is essential to manage the optimal environmental conditions for the microorganism and to avoid any type of external microbial pollution, in order to guarantee the purity of the product.



SOLUBLE POWDERS

In the plant we mix the product without heating it and in the absence of humidity. The raw materials are the best on the market, guaranteeing the absence of packing and maximum solubility.

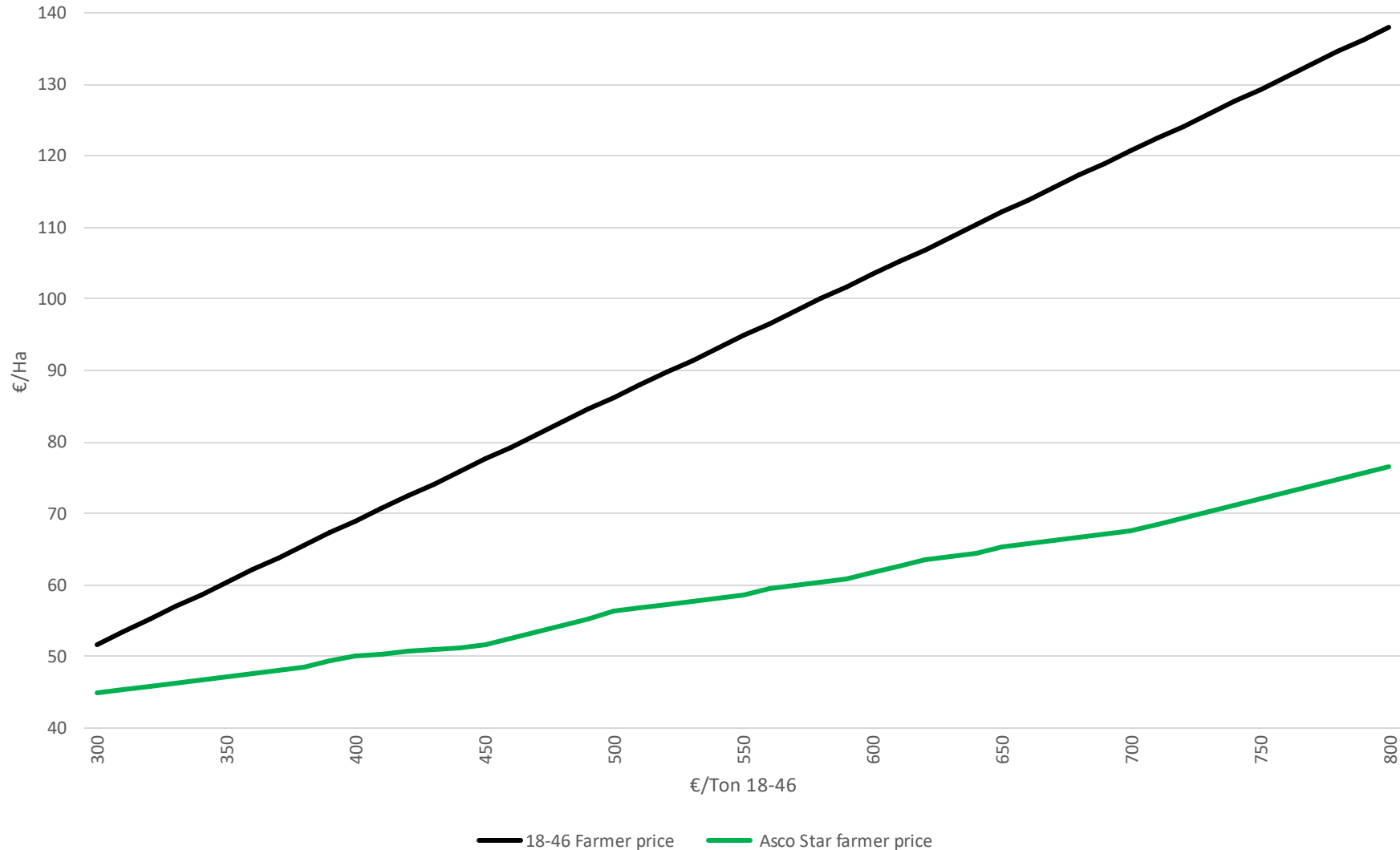


LIQUIDS

The absence of precipitates or aggregates is fundamental: the control is carried out with careful management of the pH values and process temperatures. The raw materials are the best on the market, to eliminate any possible problem when sprayed also at ultra low volumes (ex 50 kg / ha).

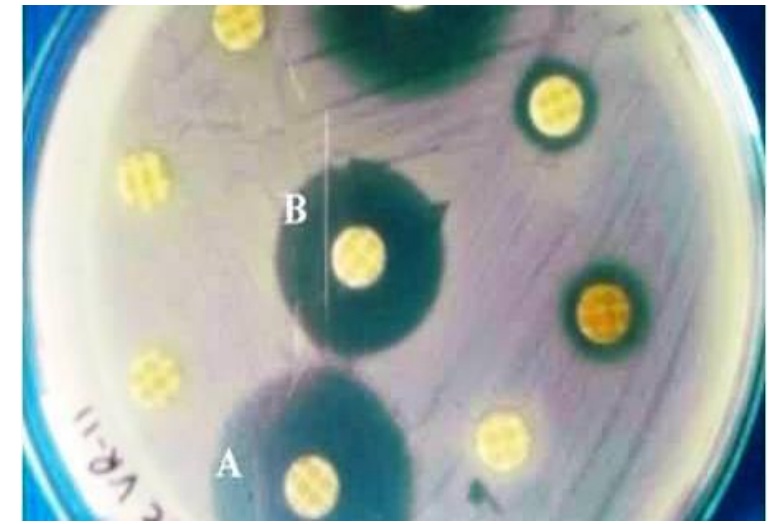
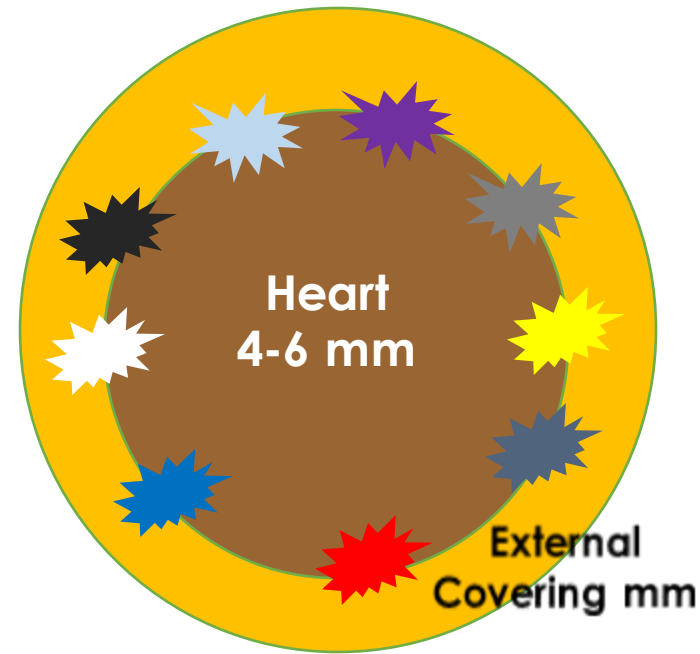
The convenience of microgranules

Cost of starter fertilization
€/Ha



The use of **microgranular fertilizers is always cheap when the cost of raw materials increases**

The graph on the side shows the cost for the farmer using the DAP (18-46) localized at 150 kg / ha, compared to the use of Asco Star Humi at a dose of 30 kg / ha



Addition of microorganisms

All m.o. are added to the other MPs in granulation, to avoid shock effects (T °, salinity, drying).

Slow granulation - low T ° - slow drying

Microorganismes addiction

Mycorrhizae = 6 species (in all)

Trichoderma: 4 species

Rhizosphere bacteria: 14 different species and specific strains

Rhizobium

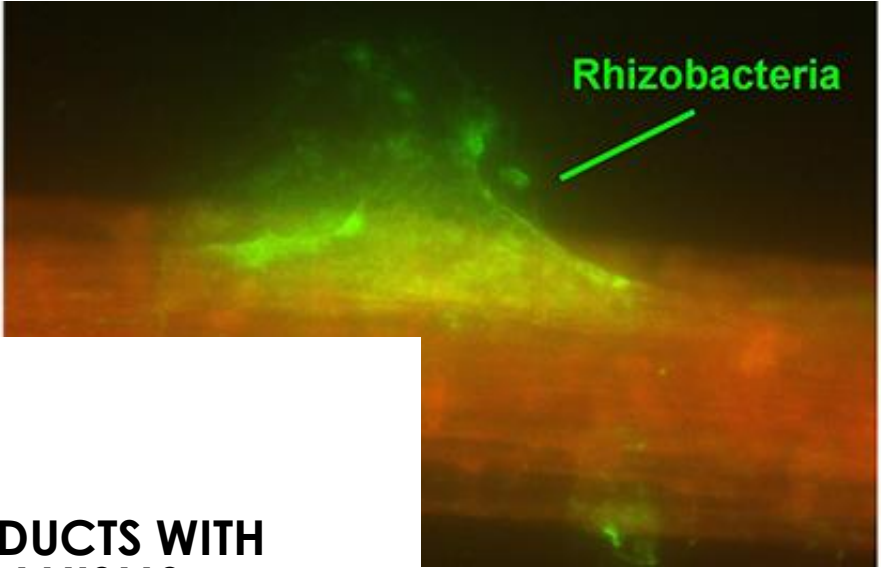
Three-step process

1. Microgranule heart **production** - drying and possible storage
2. Cold mixing heart + **microorganisms** + stabilizer additives + adhesives + **probiotics**
3. **Microgranule coating** with protective external membrane and drying at low temperatures

Probiotics addiction

For m.o. very unstable we add probiotics, to nourish the m.o. normally present in nature, eg. :

1. Azotobacter
2. Streptomyces
3. ...



**SPECIAL PRODUCTS WITH
MYCOORGANISMS -
EFFECTS**





PRODUCT
RANGE

VEGETAL BIOACTIVES HYDROLIZZATES

Special plant extracts	Specific substances from innovative enzymatic extractions
Amino Acids	A.A. Vegetable. L-Amino acids absorbed by the plant. Those animals are not recognized.
Enzymatic Hydrolysis	Preserves all the a.a Allows to characterize the product
Fulvic acids	Low molecular weight, biostimulating activity, acid pH that can be mixed with other substances
Humic acids	High molecular weight, chemical-physical activity on the soil and biostimulant on the root
Nutrients	Original and / or add to optimize the result
Seaweed	(Ascophyllum Nodosum: high biostimulating activity, acid formulations from mild hydrolysis: preserves all bioactive substances





MINERAL NPK E TRACE ELEMENTS FERTILIZERS

Special plant extracts

Specific substances from innovative enzymatic extractions

Seaweed

Ascophyllum Nodosum, high biostimulating activity. Acid formulations from mild hydrolysis: Preserves all bioactive substances.

Macroelements NPK

Different formulas for different needs. Possibility of tailor-made formulas.

Meso and Microelement

Specific formulations complexed with innovative organic substances in powder.

MICROORGANISM BASED PRODUCTS

Microorganisms	Reduction of biotic stresses (natural barriers against diseases / direct and abiotic action. Nitrogen fixing bacteria for cereals and vegetables)
Probiotic Compounds	Specific compounds to stimulate the development of local microorganisms
Micorrize	The only products on the market containing 6 different species of mycorrhiza

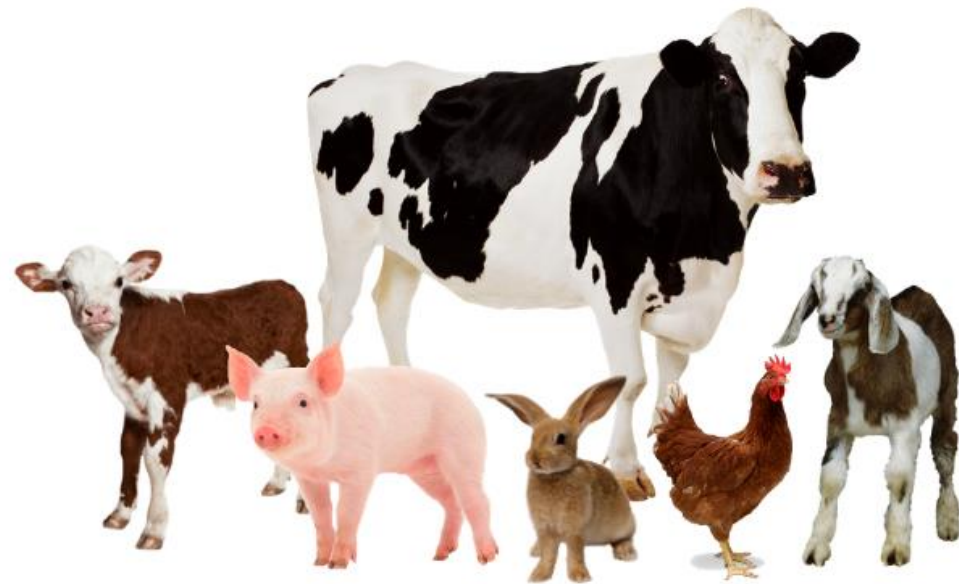




EXCELLENCE FOR ANIMAL PRODUCTIONS

Products dedicated to animal breeding and waste management

Suitable for:



GROW YOUR PASSIONS, BRING YOUR PLANTS TO LIFE

Products allowed in organic farming

The Home Garden family was created to enter your garden and guarantee protection, stimulation and health to your plants.





Stock and **logistics** management

- **STOCK:** We always have raw materials in stock, so that we can always be ready to go into production immediately according to market needs
- **LOGISTICS:** We ship every product, even for small quantities, with different carriers all over the world in a few days.

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