



SINTESIS
QUIMICA

MEDIA KIT

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1.1 About us

SINTESIS QUIMICA is a company based in Argentina that specializes in biological products for agriculture. **SQ focuses mainly in the development of new processes and innovative solutions to make crops more efficient.** The company has a growing presence in both domestic and foreign markets due to the exceptional quality of our products and excellent customer services.

SQ laboratories are among the most prestigious in Argentina with highly qualified staff and sophisticated equipment.



Feel free to contact us whether you are a local business or an international company



1.2 Our commitment



HIGHEST QUALITY PRODUCTS

compliant with ISO 9001
international standards



CUSTOMER SATISFACTION



CUSTOMER SERVICES



STATE OF THE ART PRODUCTION



MODERN EQUIPMENT



PERMANENT PRODUCT UPDATES AND RENOVATION



ENVIRONMENTALLY FRIENDLY PRODUCTS AND PROCESSES

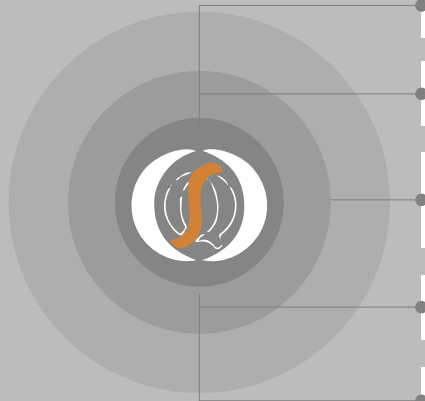


CONTINUOUS EDUCATION AND TRAINING OF STAFF



2.1 Our products

We offer a wide variety of **bio** products developed to provide top quality solutions to each and every obstacle crops must face in order to maximize their yield. **These can be divided in five main categories:**



INOCULANTS FOR LEGUMES

PROTECTOR OR EXTENDER

**PLANT GROWTH PROMOTER
RHIZOBACTERIA (PGPR)**

PHOSPHOROUS SOLUBILIZER BACTERIA

BIOLOGICAL SOIL DISINFECTANT



2.2 Frozen Concentrate

Applying new technologies in the cultivation of cells microorganisms (Bradyrhizobium and Rhizobium), our laboratories achieved cell cultures with a higher performance and better quality.

This is a new support for inoculants that enables a top notch distribution method which is revolutionizing the market. The product contains approximately 1×10^{12} bacteria/gram and because of its high concentration, weight and volume diminish one thousand times compared to regular inoculants, making it ideal for shipping. If stored at -20°C it keeps its initial count for many years.

This process maintains the typical vitality of a culture in full bloom and their nodulation and Nitrogen-fixing qualities stay intact. With a simple dilution method, it is possible to produce peat base inoculants without an expensive investment.

There is no need for high cost equipment nor specialized personnel.



2.3.1 Legume Inoculants

NODS

NODS is a technological development for the seeds treatment designed by Sintesis Quimica's best scientists. **This Bio system contains active components**, specific molecular signals, which favour early nodulation; increasing biological Nitrogen fixation and therefore allowing crop growth maximization.

THIS SIGNAL EXCHANGE BETWEEN RHIZOBIA AND LEGUMES INVOLVE SEVERAL EVENTS

BACTERIA GROWTH IN THE ROOTING ZONE

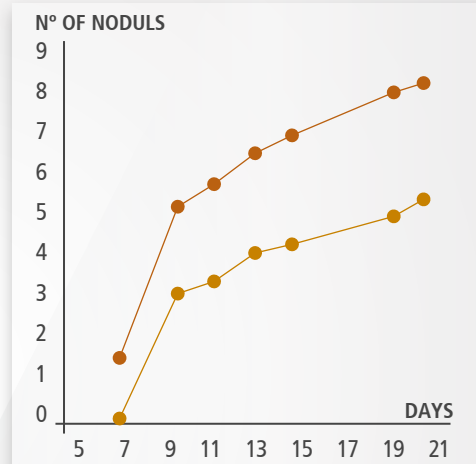
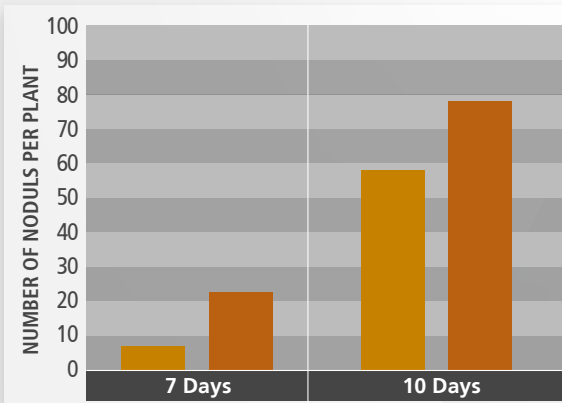
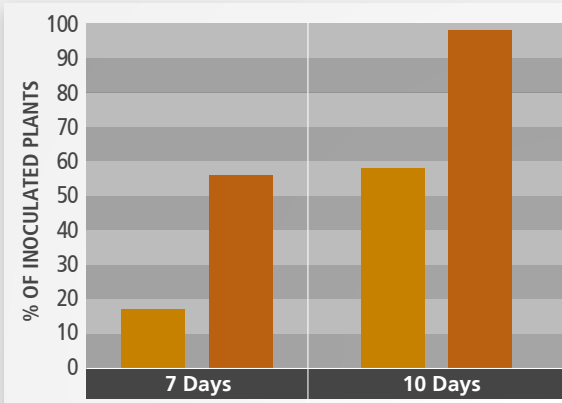
SIGNALS FROM RHIZOBIUM TO THE PLANT INDUCE NOD-GENES TO ENHANCE NODULATION PROCESS

NODULES FORMATION IS MUCH BIGGER AND NUMEROUS ON THE CROWN ROOT



2.3.1 Legume Inoculants

NODS



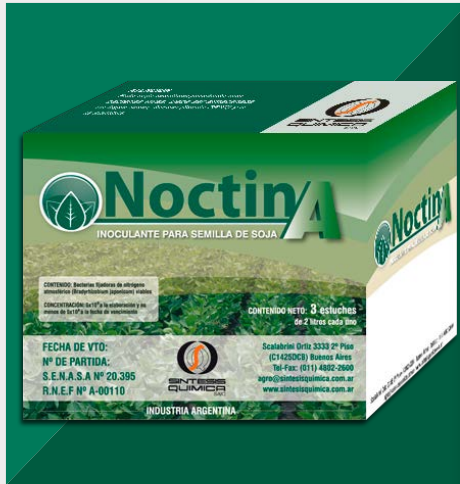
Nodulation kinetics trials, demonstrated a significant increase in the early appearance of nodules. This implies that it is more effective in the initial process of infection, allowing a competitive advantage with other soil microorganisms.

Control
without NODS

Inoculated
with NODS



2.3.2 Legume Inoculants



Noctin A is an aqueous solution to apply on soybean seeds, that contain strains that have been selected due to their competitiveness and the ability of *Bradyrhizobium japonicum* bacteria to fix atmospheric Nitrogen.

High concentration of these bacteria and their packing in maximum purity conditions yields approximately 1,500,000 bacteria per seed.

This is formulated to provide compatibility with fungicides, which enables an integral seed treatment.

- ✓ Easy to handle aqueous fluid.
- ✓ Flexible.
- ✓ Homogeneous distribution on seeds.
- ✓ Adherence to seeds.
- ✓ Extended shelf life.
- ✓ Long lasting bacteria survival on seeds.
- ✓ Compatibility with Chemicals.
- ✓ High Number of bacteria/ml.



2.3.2 Legume Inoculants



PRODUCT	BACTERIA	CROP	DOSAGE
Noctin Line			
Noctin A	Bradyrhizobium japonicum	Soybean	100cm ³ / 50 kg of seeds
Noctin A Poroto	Rizobium Phaseoli	Common Bean	250cm ³ / 50 kg of seeds
Noctin AP	Bradyrhizobium sp.	Peanut and other legumes	200cm ³ / 50 kg of seed
Noctin A for Lentils, Peas, Faba beans	Rhizobium leguminosarum bv. Viceae	Pea, Lentils, Faba beans	200cm ³ / 50 kg of seeds
Noctin Alfalfa	Rhizobium Meliloti	Alfalfa, Melilotus spp.	250cm ³ / 100kg of seeds
Noctin Clover	Rhizobium leguminosarum bv. Trifolii	Clover	250cm ³ / 100kg of seeds
Noctin A Garbanzo	Mesorhizobium ciceri	Chickpea	100cm ³ / 50 kg of seeds
Noctin A Lupin	Bradyrhizobium lupini	Lupin	
Noctin AMO	Bradyrhizobium japonicum	Soybean	100cm ³ / 50 kg of seeds
Noctin Nods 's	Bradyrhizobium japonicum	Soybean	100cm ³ / 50 kg of seeds



2.3.3 Legume Inoculants

NoctinAMo



Noctin AMO is an inoculant with the addition of Molybdenum. This formulation increases the proven Noctin A's efficacy in soybean nodulation.

The presence of Molybdenum is indispensable for bacteria to fix atmospheric Nitrogen. Fixation begins earlier than with regular inoculants, this means that nodulation, and its resulting supply of Nitrogen to the plant also has an early starting. Due to this feature **Noctin AMO** is appropriate to use in cold areas. Field tests, carried out by different official institutions, have shown evidence of a yield increase by around 10%.



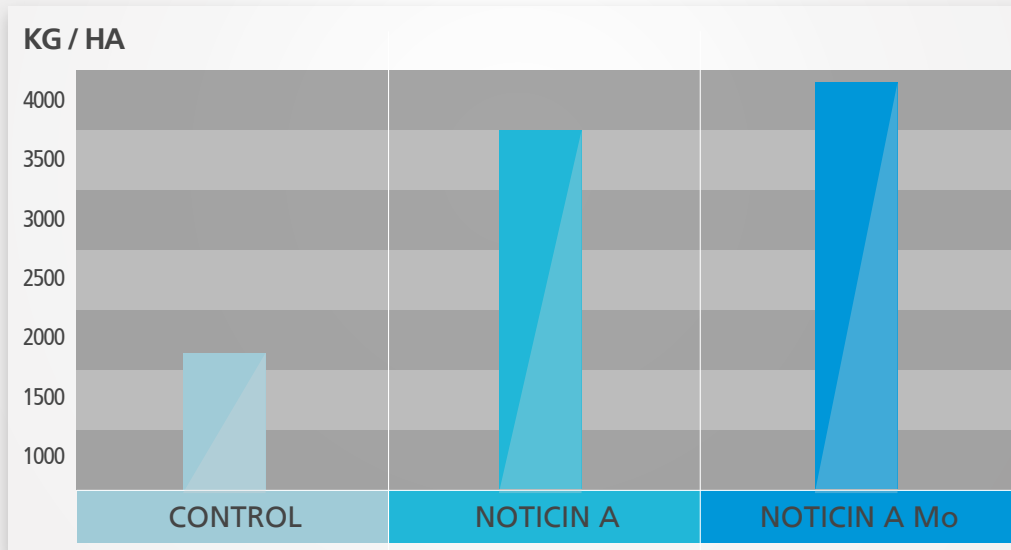
PATENTED
FORMULATION



2.3.3 Legume Inoculants

NoctinAMo

Noctin AMO INOCULANTS EFFECT
average of more than 100 field tests.



PATENTED
FORMULATION



2.4 Protector/Extender

Pro Noc Multi



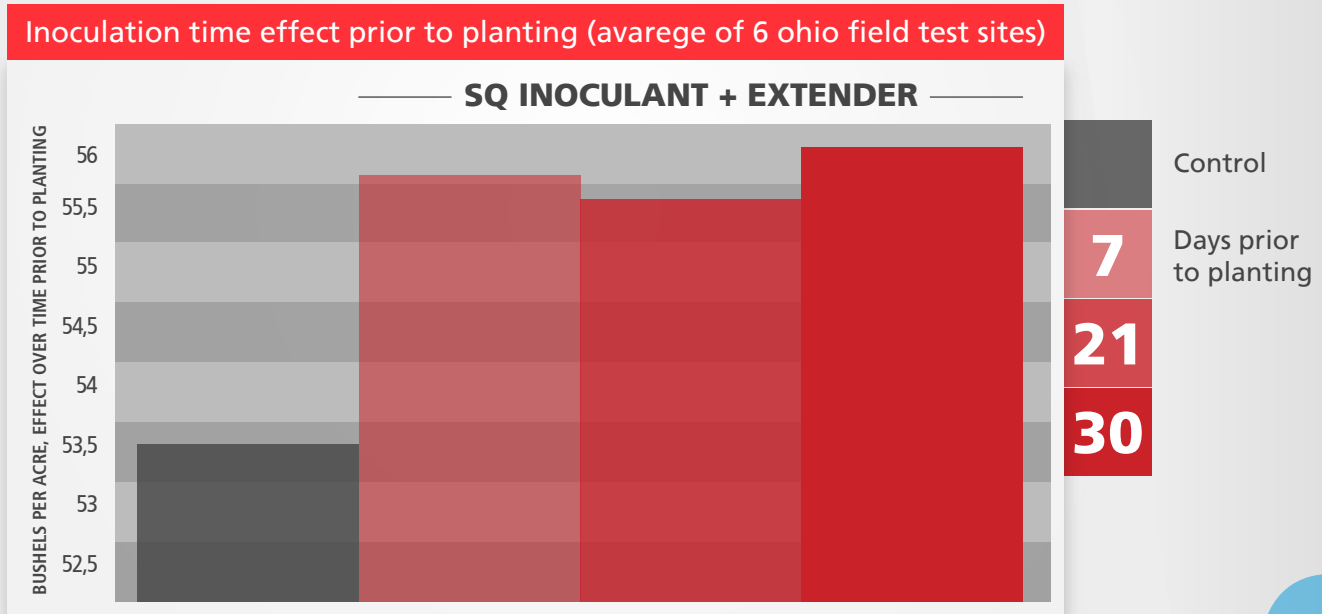
Pro Noc Multi is a liquid that can be mixed with inoculants when they are being applied, to enhance bacterial survival in inoculated seeds, specially when inoculants are applied together with chemicals (fungicides and/or insecticides). This product is recognized as one of the most efficient in the market.

By adding this product to the seed treatment while using inoculants, a remarkable yield increase is obtained. We advise to supplement the Noctin Line treatment with **Pro Noc Multi** to achieve even greater results.

- ✓ Protects bacteria on seeds once inoculated.
- ✓ Makes the inoculants compatible with chemical.
- ✓ fungicides And/or insecticides.
- ✓ Permits inoculation up to three months before seeding.
- ✓ Adaptable to any inoculation method.
- ✓ Seed sellers can supply already inoculated seeds.



NEW TECHNOLOGIES PREINOCULATION WITH EXTENDER



2006 - FIELD TESTING DATA FROM OHIO STATE UNIVERSITY from Dr. Jim Beutlein



2.5.1 PGPR inoculants



Noctin AZO is a biological fertilizer. The Azospirillum genus are free micro organisms and can't therefore be applied to other non-leguminous crops such as wheat, corn, barley, cotton, etc...

Their main function is to promote plant growth, generating increased root length. This allows the plant to explore a greater soil volume for absorbing water and nutrients. The result is a 10% increase in biomass and therefore yield, according to tests carried out by official organizations.

Benefits are:

- ✓ Improves root quantity and quality.
- ✓ Improves the capacity to overcome stress situations.
- ✓ Improves adaptability to different agricultural and ecological conditions.

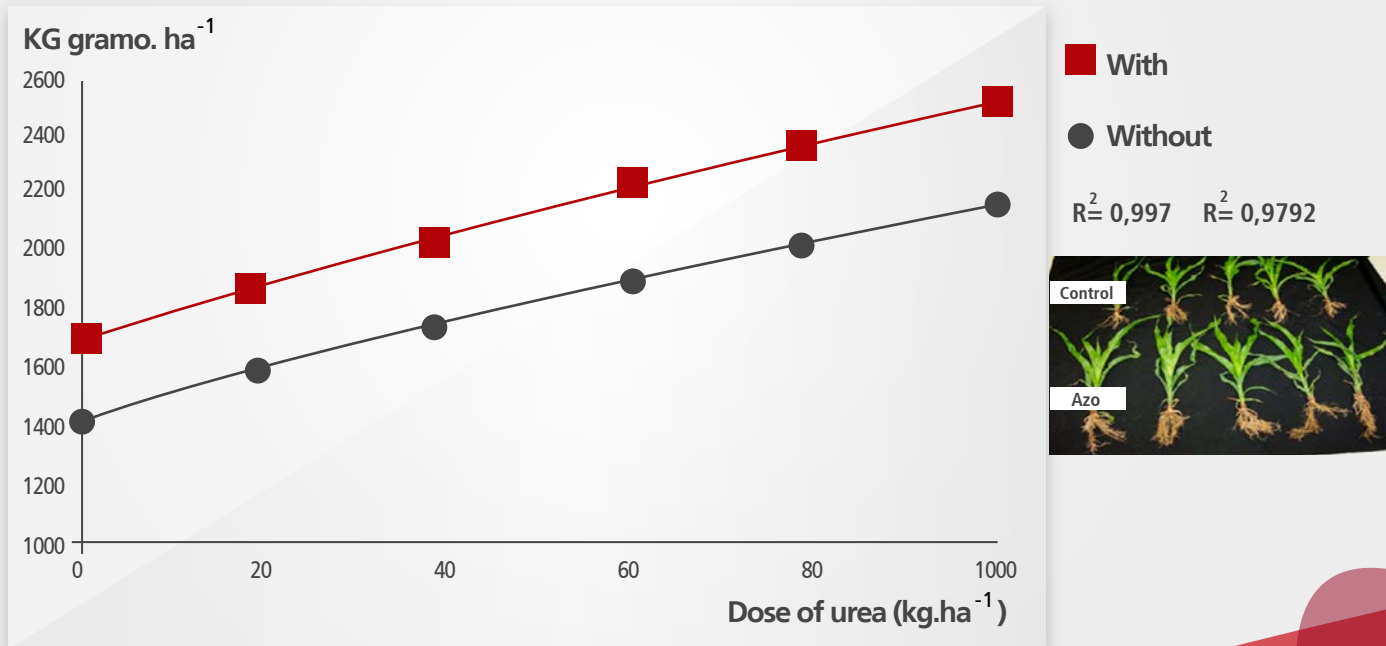


2.5.1 PGPR inoculants



Noctin AZO Wheat, Technical Development Season 2012

Yields according to rates of urea and treatments with and without NOTICIN AZO



2.5.2 PGPR inoculants



Noctin FOS contains bacteria which develop on the root surface. It contains Phosphorous Solubilizer Bacteria that makes non-soluble phosphorous, usually as tri-calcic phosphate, available to plants. Phosphorus solubilization provokes the plant to emerge faster and homogenous as well as increasing the length, volume and dry weight of both roots and the aerial parts.

The main functions of Bacteria developing on the surface of the roots are:

- ✔ Releases phosphates from organic compounds

through an enzyme (phosphatase.)

- ✔ As bacteria develop in the Rhizosphere, they take nutrient substances segregated by the roots (exudates, generally secondary metabolites) which inhibit the proliferation of pathogens.

- ✔ Produces substances (hormones, citric acid, oxalic acid, etc...).

which contribute to the germination speed and the root development.

- ✔ The increase of yield oscillates between 15 20% depending on the crop and the particular condition of the plant cycle.



2.5.2 PGPR inoculants



Product	Bacteria	Dosage
Noctin AZO	Azospirillum brasilense	Soybean: 200cm ³ / 50kg of seed Corn: 250cm ³ / 25kg of seeds Wheat: 500 cm ³ / 100kg of seeds Sunflower: 100cm ³ / 5 kg of seeds
Noctin FOS	Pseudomonas Fluorecens	Same as Noticin AZO

Useful for a huge variety of crops. Contact us for information on other crops dosage.



2.6 Biological soil disinfectant



Noctin Tricho is a formulated powder product based on *Trichoderma virens* spores. It is a fungus that has many beneficial properties for agriculture and specially the plant's health. Some of these benefits are:

- ✔ Stimulates Plant Growth.
- ✔ Protects seed against pathogen attacks.
- ✔ Colonizes the Rhizosphere and segregates some antibiotics against many harmful microorganisms for the plant.
- ✔ Controls different phytopathogenic microorganisms, especially fungi that cause damping off.

- ✔ Allows reduction of chemical pesticides.

Trichoderma has shown to produce plant growth stimulation and substance development as well as speeding up cell reproduction, all of which contribute to higher yields.

Tobacco, tomato, garlic, onion, carrot, strawberry, flowers, banana, potato, cucurbitaceous, soy, peanut and common bean are some of the crops *Noctin Tricho* can be used for to obtain great results.



CONTACT US

Sintesis Quimica's objective is to achieve full customer satisfaction and to supply great products at amazingly competitive prices. We will be pleased to answer any questions.

If you are interested in any product don't hesitate to contact us at **support@sintesisquimica.com.ar**



For further questions you can contact us at so we can clarify any doubts you might have related to technical details, prices, etc.

Let's talk!

