

Enrich your crop

syngenta®
Biologicals

NUTRIENT USE EFFICIENCY



NIENTRIS® is a biofertilizer based on the endophyte microorganism *Azotobacter salinestris* strain CECT 9690 and the beneficial microorganism *Wickerhamomyces anomalus* strain CECT 13172. *Azotobacter salinestris* strain CECT 9690 is particularly effective in fixing atmospheric nitrogen (N) at the root and foliar level. When applied to the soil, NIENTRIS colonises the rhizosphere and the interior of plant tissues. *Wickerhamomyces anomalus* strain CECT 13172 acts as a prebiotic of *Azotobacter salinestris* strain CECT 9690 enhancing its crop tissues colonisation and its effectiveness in atmospheric nitrogen fixation. Moreover, it may promote crops nutrient use efficiency by its capacity of soil nutrients solubilisation. NIENTRIS may improve crop growth, yield and quality even under abiotic stress conditions.

Manufacturer

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Distributor

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**In case of toxic or transport emergency ring
01484 538444 any time**

PROTECT FROM FROST.
SHAKE WELL BEFORE USE.

SAFETY PRECAUTIONS

(a) Operator protection

Keep out of the reach of children. Do not breathe dust. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing. Wash hands after using the product. Do not ingest. In case of contact with the affected area with plenty of water. Contains microorganisms. May cause sensitisation reactions. The use of respiratory protection equipment (disposable respirator or filtering mask, at least EN 149FFP3 or equivalent) is recommended when handling the preparation or applying the product. Avoid contact with skin and eyes.

(b) Environmental Protection

Do not exceed the recommended dose rates. Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

(c) Storage and disposal

Product is stable under storage and disposal conditions. Keep containers tightly closed and in original containers when not in use in fresh and well aerated location, with temperature between 5° and 35° C. Avoid direct sunlight and other heat sources. The product is not combustible.

RINSE CONTAINER

THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.



MODE OF APPLICATION



SOIL/ROOT



FOLIAR



250 g

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COMPOSITION

Azotobacter salinestris strain CECT 9690

1 × 10⁷ CFU/g

Wickerhamomyces anomalus strain CECT 13172

1 × 10⁷ CFU/g

DIRECTIONS FOR USE

BEFORE APPLYING THE PRODUCT, READ THE LABEL CAREFULLY.

GENERAL INFORMATION

NIENTRIS® is a biofertilizer based on the endophyte microorganism *Azotobacter salinestris* strain CECT 9690 and the beneficial microorganism *Wickerhamomyces anomalus* strain CECT 13172. *Azotobacter salinestris* strain CECT 9690 is particularly effective in fixing atmospheric nitrogen (N) at the root and foliar level.

When applied to the soil, NIENTRIS colonises the rhizosphere and the interior of plant tissues.

Wickerhamomyces anomalus strain CECT 13172 acts as a prebiotic of *Azotobacter salinestris* strain CECT 9690 enhancing its crop tissues colonisation and its effectiveness in atmospheric nitrogen fixation. Moreover, it may promote crops nutrient use efficiency by its capacity of soil nutrients solubilisation. NIENTRIS may improve crop growth, yield and quality even under abiotic stress conditions.

Dose and Application Methods

NIENTRIS can be applied to a wide range of crops including, but not limited to arable, potato, grass, field vegetables and cover crops.

Foliar spray application

It is important that both the crop and the soil are exposed to the product when spraying. This will enable the colonization of both the leaves and the roots of the crop plant. Generally, NIENTRIS can be applied during the whole crop's growth cycle however, we recommend the following timing of application:

Crop	Dose rate	Recommended timing of applications	Recommended number of applications	Recommended water volume (lt/ha)
Cereals	50 g/ha	GS13-16 (three leaves unfolded - six leaves unfolded) GS22-33 (two tillers detectable - node three at least 2cm above node 2)	1 to 2	100-400
Pulses		GS14 (four leaves unfolded) to start of flowering	1	
Maize		GS12-16 (two leaves unfolded - six leaves unfolded)	1	
Oilseed rape		GS11-14 (first leaf unfolded - four leaves unfolded) GS29-31 (End of shoot development - one visibly extended internode)	1 to 2	
Potato		BBCH GS 00-60 From in-furrow to start of flowering	1 to 3	
Sugar beet		GS12-16 (two leaves unfolded - six leaves unfolded)	1	
Cover crops		1 week after emergence	1	
Permanent grassland		Early spring, then 1 week after every cut	1 to 4	

TANK MIXING

NIENTRIS is compatible with most normally used fertilizers and agrochemicals. For more information, contact the manufacturer's or distributor's technical support.

FOLLOWING CROPS

There are no restrictions on crops following an application of NIENTRIS in the previous season.

MIXING

When preparing NIENTRIS for application:

- Gradually pour the NIENTRIS into the spray solution, stirring continuously to achieve a uniform suspension.
- It is recommended to pre-dilute NIENTRIS with a small quantity of water prior to pouring into the spray tank.
- The spray mix must be kept agitated during mixing and application.
- Avoid low water temperatures below 5°C.

APPLICATION

For best results:

- Ensure good leaf coverage.
- The crop must be actively growing at the time of application.
- Do not apply when air temperature is below 5°C

- Low average day temperatures (less than 100C) post application will reduce colonisation speed.

After spraying

Thoroughly wash all spray equipment with water immediately after use.

COMPANY ADVISORY INFORMATION

The manufacturer guarantees the composition, formulation and content and the user will be responsible for damages caused by total or partial non-observance of the label instructions.

To access the Safety Data Sheet for this product, scan QR code:

L1140396 GBRI/07D



Alternatively, contact your supplier.