Preparation Date	Revision No.	Revision Date
May 5, 2026	17	May 5, 2026

BACTERIAL INOCULANT | SOLUBLE SUSPENSION | AGRICULTURAL USE

OMRI Listed® Certified — Suitable for Certified Organic Production (USDA NOP)

GENERAL DESCRIPTION

ALOMYXA® is an agricultural bacterial inoculant formulated with a proprietary strain of *Bacillus amyloliquefaciens* at a minimum concentration of 1.0 × 10^8 CFU/mL, enriched with organic seaweed extract (*Macrocystis pyrifera*). The proprietary strain is distinguished by its proven ability to stimulate root architecture by increasing secondary root density and root hair development through the biosynthesis of growth phytohormones—primarily auxins and cytokinins—directly in the rhizosphere, generating a more functional root system with greater water and nutrient absorption surface area from the first weeks of application. The *Macrocystis pyrifera* formulation complements this action by improving moisture retention in the rhizosphere, promoting bud break and strengthening plant physiological tolerance to abiotic stress.

Its effectiveness as a plant growth promoter and rhizosphere microbiological support is backed by more than 30 peer-reviewed scientific publications, including studies indexed in the SENASICA and SADER Communication System of the Government of Mexico

Bacillus amyloliquefaciens improves plant productivity through the following biomechanisms:

a) Plant Growth Stimulation: Biosynthesis of growth-regulating compounds—including growth phytohormones, primarily auxins, and other bioactive compounds—that enhance nutrient assimilation and promote a more developed root architecture, characterized by increased secondary root formation, greater root hair density, and more vigorous foliage.

b) Production of Bioactive Metabolites: Biosynthesis of natural compounds that support microbiological balance in the rhizosphere and contribute to the development of a healthier root environment.

c) **Nutrient Solubilization and Mobilization**: Biosynthesis of organic acids that solubilize and mobilize soil-bound macronutrients—particularly phosphorus and zinc—making them directly available for root uptake.

d) **Exopolysaccharide (EPS) Formation**: Produces a network of EPS within the rhizosphere that improves soil moisture retention and enhances plant tolerance to water and salinity stress.

e) Stimulation of Rhizosphere Biological Activity: Promotes biological processes associated with nutrient cycling and nutrient utilization within the root zone.

Biological-based product compatible with certified organic agriculture programs, conventional agriculture, and export-oriented production systems.

COMPOSITION

Suspension of viable spores and endospores of *Bacillus amyloliquefaciens* with a guaranteed minimum concentration of 1.0 × 10^8 CFU/mL, enriched with high-purity organic extract of *Macrocystis pyrifera* (seaweed). Fully water-soluble. Contains stabilizing components that protect and maintain microorganism viability throughout the product's shelf life.

AGRONOMIC BENEFITS

★	May improve crop yield depending on the crop, agronomic management practices, and site-specific conditions.
★	Accelerates and enhances vegetative growth: increased secondary root development, greater branching, more vigorous foliage, and enhanced lateral bud emergence.
★	Optimizes soil properties and improves plant nutrition and growth.
★	Enhances the utilization of chemical and organic fertilizers, potentially reducing input requirements.
★	Promotes microbiological balance in the rhizosphere and contributes to the development of a healthier root environment.
★	Increases tolerance to water and salinity stress.
★	Compatible with conventional, organic, and export-oriented agricultural programs.
★	Low environmental impact when used according to the recommended application guidelines. Easy to handle and apply.

PHYSICAL AND CHEMICAL PROPERTIES

ALOMYXA® in its liquid formulation is a suspension that is completely dispersible in water.

Physical State	Turbid liquid
Solubility	Suspension completely dispersible in water
Color	Turbid light green
Odor	Fermentative, slightly acidic
pH	6.0 – 7.5
Corrosiveness	Non-corrosive
Flammability	Non-flammable
Stability	Stable under proper storage conditions

MANUFACTURING

ALOMYXA® is manufactured in biotechnology facilities using a formulated and defined culture medium, produced under controlled conditions and isolated from environmental contaminants. The components used are safe and harmless to both humans and the environment.

The *Macrocystis pyrifera* (seaweed) extract contained in the product is obtained from seaweed harvested in its natural environment and processed to preserve its natural characteristics. It acts as a plant growth promoter and provides a stabilizing environment for the microorganisms present in the formulation.

PACKAGING

Liquid suspension, available in the following container sizes:

- 1 L
- 20 L
- 200 L

APPLICATION AND DOSAGE

Apply directly to the soil or as a foliar spray. Compatible with fertigation, drench, and spray application systems. For spray applications, use in combination with an agricultural adjuvant that is compatible with microorganisms (preferably based on natural polysaccharides or a biodegradable non-ionic surfactant).

Recommended Application Program

Timing / Growth Stage	Method	Recommended Rate
Seedling Tray / Nursery Substrate Preparation	Substrate drench	**1–2 L per 100 L of water before sowing**
Seedling Tray / Nursery Germination	Drench or spraying to seedlings	**2 L per 1,000 seedlings per week**
Transplanting (Root Treatment)	Root dip	2 L per tank (e.g., 50 L of water)
Crop Establishment (Weeks 1–4)	Weekly drench	**2–3 L/ha**
Without Prior Root Treatment	Initial drench + weekly applications	**4–6 L/ha initially, followed by 2–3 L/ha per week**
Maintenance (Week 5 Onward)	Irrigation system	**4 L/ha per week**
Crop Establishment (Optimal Colonization)	Irrigation system	**8 L/ha initially, followed by 4 L/ha per week**
Preventive Foliar Program	Spray application	**4 L/ha, according to disease pressure and crop risk**
High Pathogen Pressure	Irrigation / Drench & Foliar Application	**8 L/ha initially through irrigation or drench, applied 3–5 days after a previous application of a compatible fungicide.** **&** **4 L/ha foliar, applied 3–5 days after a previous foliar application of a compatible fungicide.** **Subsequently, apply 4–6 L/ha per week.**

ALOMYXA® may be compatible with certain selective systemic fungicides. A compatibility test is recommended before tank-mixing products.

For crop-specific protocols and optimum results, consult an authorized NUTRISURCO® representative.

RECOMMENDED CROPS

ALOMYXA® is recommended and suitable for application in horticultural, fruit, berry, ornamental, forestry, tropical, and field crops, including species belonging to the botanical families *Rosaceae (Fragaria spp., Rubus spp., Prunus spp.), Ericaceae (Vaccinium spp.), Rutaceae, Lauraceae, Poaceae (grasses), Fabaceae (legumes), Solanaceae, Cucurbitaceae, Brassicaceae, Anacardiaceae, Vitaceae, Musaceae, Asteraceae,* and *Oleaceae*, among others.

ALOMYXA®, formulated with our proprietary strain of *Bacillus amyloliquefaciens*, can be applied across different production systems, including conventional agriculture, organic agriculture, protected agriculture, hydroponic systems, and greenhouse production, and at various crop phenological stages.

STORAGE

- Store in a cool, dry place away from direct sunlight.
- Do not store together with food, clothing, or medicines.
- Do not reuse the empty container. Triple-rinse the container and dispose of it in accordance with local regulations.
- Shelf life: Refer to the expiration date printed on the product label. Store at temperatures below 86°F (30°C).
- Protect from freezing conditions and extreme weather exposure.

PREPARATION AND DIRECTIONS FOR USE

- Shake the product thoroughly before use.
- Dilute in clean water, adjusting the final volume according to the application area.
- Calibrate the application equipment before use.
- Maintain the solution pH between 6.0 and 7.5 to promote microbial viability.
- Apply during the cooler hours of the day; avoid periods of intense solar radiation.
- Apply when adequate soil moisture is available.
- Avoid mixing with bactericides, disinfectants, or other products that may adversely affect microbial viability.
- Not compatible with disinfectants or biocides, as they may inactivate the active ingredient.
- Avoid solution pH values below 5.5 in the spray or mixing tank.

PRECAUTIONS FOR USE AND FIRST AID

Wear gloves, safety goggles, and protective clothing when handling the product. Avoid contact with skin and eyes. Do not ingest.

- Eye or skin contact: Rinse thoroughly with plenty of clean water for at least 15 minutes.
- Ingestion: Do not induce vomiting. Drink water or other fluids. Seek medical attention if discomfort or adverse symptoms occur.
- Keep out of reach of children and domestic animals.

ORGANIC CERTIFICATION

ALOMYXA® Bacterial Inoculant is OMRI Listed® certified and is approved for use in certified organic production, as well as in the processing and handling of food products, in accordance with the regulations of the United States Department of Agriculture (USDA) National Organic Program (NOP).

https://www.omri.org/mfg/aot/certificate/20524

"Natural Innovation for Future Harvests"