Andermatt

BIOSTIMULATING BACTERIAL INOCULANT

PolarSprout® C5

PolarSprout® C5 is a biostimulant containing spores of *Bacillus atrophaeus* ABi05. It is distinguished by its ability to germinate at temperatures as low as 47 °F (8 °C), allowing it to colonize roots and support crop establishment in cool, early-season soils allowing it to colonize young roots and support crop establishment in cool, early-season soils. Once established in the rhizosphere, PolarSprout® C5 releases enzymes and organic acids that mobilize nutrients near the root and supports the plant's tolerance to abiotic stresses such as cold. The result can be increased root growth, improved nutrient uptake, and greater plant vigor.

Products Specifications

Active Ingredient: ***Bacillus atrophaeus* ABi05**

Concentration: **≥2.5x10^{10} cfu / ml**

Formulation: Suspension concentrate (SC)

Relevant Crops

All annual and perennial crops - refer to label for details.

Application, Timing, & Rates

General

Spores of *Bacillus atrophaeus* enter the vegetative stage when introduced to soil at or above 47°F, and then colonize plant roots, creating a biofilm. PolarSprout® C5 must come into contact with roots to be effective. PolarSprout® C5 is your insurance to overcome and cope better with unfavorable conditions and therefore is most effective when applied as early as possible. Can be applied by dipping, seed treatment, spraying, drenching, hydroponics, or mixing with fertilizers. Good storage stability of up to 2 years at or below 77 °F.

Rates

- Spray Applications, Hydroponics, and Irrigation Systems: 3.5-14 fl. oz / acre.
- Seed Treatment: 0.3-7.5 fl. oz / cwt depending on seed size. The smaller the grains the higher the rate to be used, staying within indicated range.
- Seed Tubers: 0.3-0.6 fl. oz / cwt.

Drenching

- Cuttings and transplants: 0.25 fl. oz in 10 gallons of water.
- Soil and root zone in field: 3-9.5 fl. oz per sq. ft.
- Soil and Substrate Mixing: 1.5-3 fl. oz suspension per sq. ft. of soil.

Application

Fill mixing tank with relevant quantity of water (see label). Shake product well before use. Stir PolarSprout® C5 into water, and agitate tank mix before and during application. Add PolarSprout® C5 last if combining with other agrochemicals or plant nutrition products. Apply within 8 hours.

If using the spray application method, ensure spray nozzle size of at least 0.25mm. Applications of PolarSprout® C5 should not be used as a foliar application- product must reach the root zone. Re-application recommended after 4-6 weeks, depending on crop.



Use Considerations

- Has high compatibility with many insecticides, fungicides and herbicides, but mixture with copper products, disinfectants, and products with antibiotic properties must be avoided.
- Ensure pH remains between 5 and 8.5.

Supports Nutrient Mobilization | **Abiotic Stress Support** | **Cold-Active Performance** | **Flexible Application Methods** | **Program Compatibility** | **Supports Sustainable Production**

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Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status.