Andermatt

PLANT INOCULANT

AmyBac® P45

AmyBac® P45 is a biostimulant containing spores of the soil bacterium *Bacillus velezensis* FZB45, selected for its ability to support phosphorus mobilization. After application, the spores germinate and colonize young growing roots, working synergistically to release enzymes and further compounds that mobilize nutrients in the rhizosphere. This results in helping the plant to build a healthy and strong root system and supports its tolerance towards abiotic stress.

Products Specifications | Active Ingr.: ***Bacillus velezensis*** **FZB45** | 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 velezensis* enter the vegetative stage when introduced to soil at or above 54°F, and then colonize plant roots, creating a biofilm. AmyBac® P45 is your insurance to overcome and cope better with unfavorable conditions and therefore is most effective when applied as early as possible. Good storage stability of up to 2 years at or below 77 °F.

Can be applied by dipping, seed treatment, spraying, drenching, hydroponics, or mixing with fertilizers.

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.

Application

Fill mixing tank with relevant quantity of water (see label). Shake product well before use. Stir AmyBac® P45 into water, and agitate tank mix before and during application. Add AmyBac® P45 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 AmyBac® P45 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 Availability | **Root Zone Colonization** | **Early-Stage Support** | **Flexible Application Methods** | **IPM and Crop Program Compatible** | **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.