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Micro 108® Soluble Biological Inoculant

Description:

Micro 108® Soluble is a 100% soluble inoculant that promotes plant size, and root growth; increases vigor and durability of plants.

Active Ingredient:

* *Streptomyces lydicus* strain WYEC 108
(1×10^7 CFU/gr.)

Other Ingredients:

* Whey (inert carrier)

Description Of Active Ingredient:

Streptomyces lydicus strain WYEC 108 is a *saprophytic rhizosphere* colonizing *Actinomycete*. It was isolated from the roots of a linseed plant. Under proper conditions (moisture and temperature) the *Streptomyces* spores will germinate and begin forming mycelia that will attach to the root system of the host plant. As the root system grows, the mycelia colonies grow with it, eventually covering the entire *rhizosphere*. When active the *Streptomyces* produce a by-product called *siderophores*. *Siderophores* reduce minerals to a form more easily absorbed by plants.

Temperature Tolerance:

Spores of *Streptomyces lydicus* strain WYEC 108 are regularly frozen for storage at -0° F. Temperatures above 130° F. will sterilize the spores. Germinated spores (which occurs when the *Streptomyces* is added to potting soil, for instance) survive the same temperature range as long as there is a food source such as peat, bark or humates available as well as the proper moisture level.

PH Tolerance:

The *Streptomyces* can survive a PH range 5.0-9.1 but the range of optimal performance is 7.0-8.0.

Longevity:

The shelf life for Micro 108® Soluble is guaranteed at 12 months. Storing in refrigerated conditions may extend the shelf life. Containers are marked with an expiration date.

Chemical Compatibility:

Micro 108® Soluble is compatible with all chemical fungicides. Bactericides at levels above 75 ppm should not be used in conjunction with Micro 108® Soluble or as a drench in soils containing Micro 108® Soluble

UV Sensitivity:

The bacterium is not UV sensitive.

RATES:

Greenhouse/Nursery: Micro 108® Soluble should be mixed into water at a rate of 6-oz per 100 gallons to create a solution. Apply solution to growing media at a rate of 1 gallon per cubic foot (enough to drench soil without creating a run-off).

Turf: Use 54-oz of Micro 108® Soluble per acre for problem areas or initial application. For maintenance, apply at a rate of 18-oz per acre.

Agriculture:

In Furrow: Apply directly to seed by as drench down during planting. Dissolve 18 oz of Micro 108® Soluble in 100 gallons of water to create solution. Apply solution at a rate of approximately 10 gallons per acre.

Soil Drench: Through irrigation, use 3-12 ounces of Micro 108® per acre. Reapply every 2-3 months if necessary.

Foliar Application: As a spray use 3-12 ounces per acre evenly distributed to foliage of plant to wet but avoid run off. Reapply every 7-14 days. For best results use a spreader sticker.

Rates can vary depending on environmental condition and individual practices. Please contact manufacturer if there are any questions regarding rates.

For additional questions or specific technical inquiries please contact Matt Kowalski at 281-580-1643