CONVERGENCE™
BIOFUNGICIDE



PRODUCT HIGHLIGHTS

- Protects against soilborne fungal and bacterial diseases when applied in-furrow.
- Provides an additional mode of action against tough-to-control foliar diseases.
- Colonizes the rhizosphere, forming a protective barrier that can grow with the roots all season.
- Offers flexibility and can easily be added to current in-furrow, herbicide and/or fungicide programs.
- Cost effective biological solution shown to have a positive ROI for the grower.
- EPA registered.

CAN BE USED IN ORGANIC PRODUCTION | Residue Exempt | 4 hr. REI 0 PHI | MADE IN USA

Always carefully read and follow label instructions.

CERTIS Biologicals

800.250.5024 CertisBio.com

HOW IT WORKS

amyloliquefaciens

Bacterial and Fungal Disease Control

The active ingredient in Convergence™ biofungicide/bactericide is *Bacillus amyloliquefaciens* strain D747 (BaD747). This strain produces lipopeptides iturin, fengycin and surfactin, which are cell membrane integrity disruptors. Surfactin is a non-specific lipopeptide that works against bacterial membranes. Iturin targets fungal membranes and cell walls while fengycin destroys the inner content of the fungal cells.

Induced Resistance

Convergence provides induced resistance, which ramps up the immune system for increased defense against disease.

Colonization and Competition

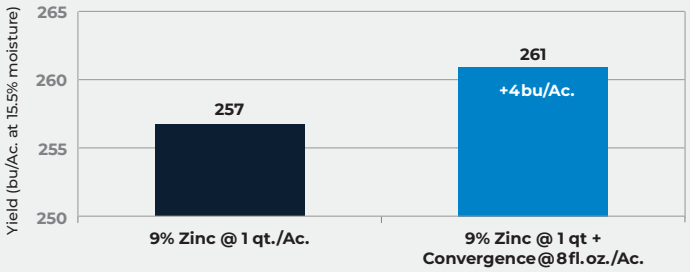
Convergence colonizes the root or leaf surface, forming a protective barrier that outcompetes and displaces pathogens. When applied in-furrow, the barrier formed around the roots can continue growing with the root system for long-lasting protection.

Enhances Crop Fertility

BaD747 also produces naturally derived polymer gamma polyglutamic acid, which is proven to increase nutrient uptake, increase root and shoot weight, enhance water use efficiency and chelate heavy metals.[1]

TANK MIXING	TIMING
This product can be applied alone or in combination and/or rotation with chemical fungicides as a tool for integrated disease management in agricultural crops. Can be tank mixed with most synthetic applications. If such a mixture is planned, a compatibility "jar test" should be conducted first by mixing the correct proportions of product and the other intended agricultural chemicals in a small volume of water.	Can be applied at plant and post-plant.
RECOMMENDED RATES	**APPLICATION OPTIONS**
In-furrow Use Rate: 8-16 fl. oz./Ac Foliar Use Rate: 16-32 fl. oz./Ac	Soil drench, drip, trickle, or any type of sprinkler irrigation, banded/in-furrow and foliar.

Convergence Yield Impact on In-Furrow Corn



Demo split field trial conducted in Huntingburg, IN, in 2022 using Dekalb DKC67-94.

[1] Pang X, Lei P, Feng X, Xu Z, Xu H, Liu K. (2018). Poly-γ-glutamic acid, a bio-chelator, alleviates the toxicity of Cd and Pb in the soil and promotes the establishment of healthy Cucumis sativus L. seedling. Environ Sci Pollut Res Int. Volume and number publication: Environ. Sci. Pollut Res. Int. 25(20): 19975-19988.

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ACTIVE INGREDIENT

Bacillus amyloliquefaciens **strain D747**

KEY DISEASES CONTROLLED

See label for full list of diseases.

- **Damping off caused by *Pythium*, *Rhizoctonia*, *Fusarium* or *Phytophthora***
- **Powdery mildew**
- **Rusts**
- **Leaf spots**
- **White mold**
- ***Botrytis* spp.**
- **Tar spot (2ee)**
- **Nematode suppression**

KEY CROPS

See label for full list of crops.

- **Corn**
- **Soybeans**
- **Peanuts**

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