

Agnique® BioHance Adjuvants

Tailor-made solution to improve biopesticide performance

Common diseases such as tomato blight, spinach downy mildew, strawberry gray mold and pumpkin powdery mildew are among many other pathogens that cause significant economic impact to farmers.

Biopesticides provide sustainable and lower non-target solutions to meet consumer and grower demand. However, maintaining and enhancing the efficacy of the biological actives in biopesticide formulations comes with its own set of challenges.

Agnique® BioHance 100 (OMRI Certified) and Agnique® BioHance 200 BASF's tank mix adjuvants are designed to tackle the biological efficacy issue.



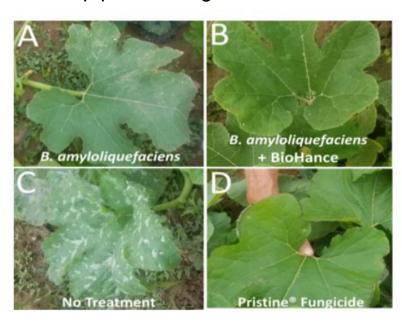
	Grape	Pumpkin	Spin	ach	Patho	ogen(s)	
Downy Mildew	Yes		Yes		Plasmopara viticola, Peronospora effusa		
Powdery Mildew	Yes	Yes			Uncin	ula necator., F	Podoshaera xanthii
	Apple	Green l	Bean	Prin	rose	Strawberry	Pathogen(s)
Scab	Yes						Venturia inaequalis
White Mold		Yes	Yes				Sclerotinia sclerotiorum
Gray Mold				Y	es	Yes	Botrytis spp.
	Sweet Corn Tomat		nato	Pathogen(s)			
Leaf Blight	Yes			Setosphaeri a turcicum			
Rust	Yes			Puccinia sorghi			
Bacterial Speck	Yes		'es	Pseudomonas syringae pv.			
Late Blight	Yes		Phytophthora infestans				

Agnique BioHance adjuvants were tested against 11 pathogens on 9 different crops in field trials.

All trials showed statistically significant improvement in control when the Agnique BioHance adjuvant was paired with *Bacillus* biopesticides.

With a strong commitment to performance, efficacy, and sustainability, BASF is here to help farmers achieve their crop protection goals.

- Agnique® BioHance 200 improves the control of powdery mildew when used with Bacillus amyloliquefaciens (Figure B) to the same degree as the synthetic fungicide Pristine (Figure D).
- Figure A: Pumpkin leaf treated with Bacillus amyloliquefaciens biofungicide
- Figure B: Pumpkin leaf treated with Bacillus amyloliquefaciens and Agnique BioHance
- Figure C: powdery mildew infestation on pumpkin leaf without any treatment.
- Figure D: Pumpkin leaf treated with Pristine® fungicide.

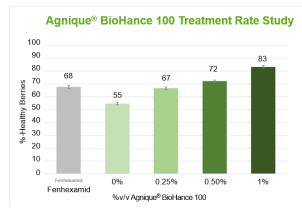


Field data show enhanced efficacy

Agnique® BioHance 100 control of Strawberry Gray Mold with *B. amyloliquefaciens* (New York)

Control of Strawberry Gray Mold (Botrytis cinerea – High Pressure)

(Bottytis ciricica – Flight Fessure)					
Trial Time Period	April/ May 2020				
Spray Volume	100 gal/a (930 L/ha)				
Elevate® 50 WDG Fungicide	24 oz/a (1.68 kg/ha)				
B.Amyloliquefaciens Biofungicide	(WP) 8 oz/a (563 g/ha)				
Replicate plots	4 (7 plants/plot)				
Applications	4 (7-day interval)				
Evaluation	5 Days after Harvest				
Phytotoxicity	0				



Field trial with different use rates of Agnique BioHance 100 being added as a tank mix adjuvant with Bacillus amyloliquefaciesn.

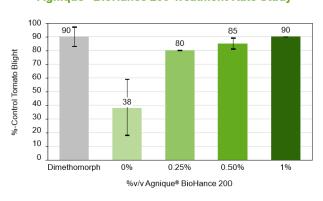
With 1% Agnique BioHance 100, B.amyloliquefaciens shows superior efficacy to control strawberry gray mold compared to the synthetic fungicide benchmark Fenhexamid.

Agnique® BioHance 200 offers excellent control of Tomato Blight with B. amyloliquefaciens

Control of Tomato Blight (Phytophthora infestans)

Trial Time Period July/August 2019 Spray Volume 100 gal/a (930 L/ha) Forum® Fungicide (SC) 6 oz/a (.44 L/ha) B. amyloliquefaciens (WP) 8 oz/a (563 g/ha) Biofungicide Replicate plants Applications 4 (7-day interval) Evaluation 10 Days after last Phytotoxicity Untreated Control 75.2% Infection

Agnique® BioHance 200 Treatment Rate Study



Field trial with different use rates of Agnique BioHance 200 being added as a tank mix adjuvant with Bacillus amyloliquefaciesn.

With 1% Agnique BioHance 200, *B.amyloliquefaciesn* shows equivalent efficacy to control tomato blight compared to the synthetic fungicide benchmark Dimethomorph.

Explore BASF Agnique® BioHance products







Regulatory status and inventory listing

Product		Agnique® BioHance 100	Agnique® BioHance 200
EU	REACH	Registered	No
USA	TSCA	Listed	Listed
USA EPA:	40 CFR 180	910&930	910
OMRI		US & Canada	Ineligible
Biobased carbon %		50 <x<95< td=""><td>50<x<95< td=""></x<95<></td></x<95<>	50 <x<95< td=""></x<95<>
Biodegradability		Yes	Yes
RSPO Certification		No	Yes



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