**BIOSt® Nematicide 100** is an innovative broad spectrum seed treatment nematicide with activity on early season nematodes and soil dwelling insects in corn.

**What is BIOSt® Nematicide 100?**

- It is a seed treatment nematicide that kills nematodes within 24 to 48 hours.
- It has activity on eggs and juveniles of the most important nematodes in corn – lesion, stubby root, sting, needle, stunt, dagger and root-knot nematode.
- **BIOSt® Nematicide 100** is a Bio-Nematicide derived from heat-killed *Burkholderia* *riokojensis* and its spent fermentation media – non-living.
- It is a nematicide with multiple modes of action via enzymes and toxins.
- It is a concentrated liquid formulation with 3 year shelf-life stability.
- Compatible with most fungicide/insecticide combinations.
- Use rate on corn – 6 to 8 fl.oz./cwt.
- It also provides additional protection on soil dwelling insects (wireworms/seed corn maggot).

**Proven Field Performance (Yield Data)**

Two Year Yield Comparison to F&I Check (bu/A)

<table>
<thead>
<tr>
<th>Year</th>
<th>Yield Comparison</th>
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<tr>
<td>2016-2017</td>
<td>+ 12.2 bu/A</td>
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- Field Sites were identified as having a history of corn nematodes or soil samples with above thresholds levels of pathogenic nematodes.
- University, IPSA and contract research field trials - 50 trials in 8 corn growing states in 2016-2017.
- Compatible with most seed treatments with 3 year stability.

**BIOSt® Nematicide 100 is a broad spectrum nematicide**
Proven Technology Supported by Science

Ph.D. Graduate Student Research - Mississippi State University

Roots challenged with Root-knot Nematode for 60 Days

Auburn University - Dr. Kathy Lawrence

2016/2017 University of Nebraska - Dr. Tamra Jackson-Ziems

Proven Field Performance (Yield Data)

Two Year Yield Summary: Votivo vs BIOst® Nematicide (bu/A)

Field Sites were identified as having a history of corn nematodes
University and contract research field trials - 13 trials in 8 corn growing states in 2016-2017
2017 Field Trials

- Field trial in Crawfordsville, IN - 2017
- Nematodes: Dagger, Needle and Stunt

- Field trial in Aurora, NE
- Nematodes: Lesion

BIOSt® Nematicide 100 also provides early season protection against soil dwelling insects in corn

Early Season Soil Dwelling Insect Protection
Corn Root Worm Trials - 2017

- 2017 Corn Root Worm (CRW) Trial Summary - 3 locations
- Sites have history of CRW with Corn on Corn rotations
- CRW damage ratings = 0 to 3 scale (ISU)
- BIOSt® Nematicide 100 reduced CRW damage and increased yields by 15% over F&I standard (similar CRW reduction and yield to Clothianidin (CLO) 1250 rate
**Seed Corn Maggot Trial - 2017**

- **Seed Corn Maggot trial – Dr. Jensen (Univ. of Wisconsin)**
- **BIOst® Nematicide 100 increased stands in a Seed Corn Maggot field by 4 and 3% over the Fungicide check and the F&I standard (CLO 250)**
- **BIOst® Nematicide 100 increased yields in a Seed Corn Maggot field by 9 and 5% over the Fungicide check and the F&I standard (CLO 250)**

**Early Season Nematode Protection that enhances soil dwelling Insect Protection in CORN**

- **10% stand improvement in wireworm/ seed corn maggot fields**
- **20% additional reduction in Corn Root Worm damage (similar to 1250 rate)**
- **7 bu/A yield increase in CRW fields – similar to that of Clothianidin 1250 rate**