Albaugh’s Premium Fungicide, Insecticide and Nematicide Cotton Seed Treatment

What is Albaugh’s Premium Cotton Seed Treatment?
It is a combination of separately registered active ingredients which includes several premium fungicides, insecticides and a nematicide applied as a seed treatment to provide complete early season protection from common seedling diseases, thrips, aphids and the most common nematodes in cotton.

What is BioST Nematicide 100?
- It's a Nematicide derived from the bacterium, *Burkholderia rinojensis*
- Non-living – handles like most seed treatment products – 3 year shelf-life
- Active Ingredient: Heat-killed *Burkholderia spp.* strain A396 and spent fermentation media
- Concentrated liquid formulation
- Patent protected strain and metabolites
- Multiple modes of action against the most common nematode species – enzymes and toxins that kill Nematodes
- Classified as a Bio-Pesticide (Bio-Nematicide)

Premium Disease Protection:
Contains best in class fungicides that work in concert together to provide excellent early season protection against most seed-borne and soil-borne fungi.
- Metelaxyl - *Pythium sp.*
- Azoxystrobin – *Pythium sp. Rhizoctonia solani* and *Fusarium sp.*
- Myclobutanil – Black root rot protection (*T. basicola*)
- Difenconazole – Fusarium activity

** Field trials indicate efficacy equal to or greater than Dynasty CST + Vibrance **

University of Arkansas (Dr. Craig Rothrock): Albaugh’s Premium fungicide package out performed Dynasty CST + Vibrance by increasing stands by 15% in inoculated *R. solani* plots at Judd Hill, AR (2016).

Better Roots with Best-in-Class *Rhizoctonia* protection

A = Albaugh’s 52 plants  
P = Phytogen 333
A = NextGen 3406
Early Season Thrips and Aphid protection:
Albaugh’s Premium Cotton Seed Treatment is powered by an industry leading low dust-off imidacloprid formulation and BioST Insecticide. These active ingredients coupled with improved root development promoted by BioST VPH… leads to reliable thrips and aphid protection via a seed treatment.

In Research Trials conducted by Dr. Gus Lorenz (University of Arkansas), Albaugh’s Premium insecticide had comparable early season thrips protection and yield to Avcita Duo + Imidacloprid (2016) - 90% confidence

Albaugh’s Premium Cotton Seed Treatment - powered by BioST Nematicide 100:
- University and Grower tested on multiple crops and nematodes
- Multiple modes of action with broad spectrum of activity on cotton nematodes
- Activity across multiple soil types… doesn’t bind to organics like abamectin
- Excellent seed safety – carry over for 2 years w/ good efficacy
- Compatible with most seed treatment chemicals
- Complements imidacloprid with proven bio-insecticidal activity
- Caution Signal Word
- Multiple sku sizes to fit your production
- Limited risk to humans and treater applicators - No REI with seed treatment

Mississippi State Univ. Graduate Student Ph.D. Thesis
- Inoculated with 2500 RK eggs at planting
- Nematodes per gram of root @ 60 DAP
- Similar letter indicate no significant differences between treatments
- 80% confidence

P = Phytogen 333
A = NextGen 3406
Excellent activity in both Root-knot and Reniform nematode fields in Georgia, the Carolinas and the mid-south that had moderate to high nematode pressure. Better canopy closure and higher chlorophyll content (greenness) was observed in most field locations compared to abamectin (Avicta) based seed treatment.

BioST Nematicide 100 treated seed also yielded more robust plants (including roots) and had an earlier boll set when compared to competitive seed treatment options.

\[ \text{SPAD} \]

- BioST Nematicide
- Avicta Elite

Wes Briggs

Dr. Steve Brown

= PhytoGen 333

= NextGen 3406
• New Nematicide – BioST Nematicide 100
• Complete seed treatment introduction in cotton – premium fungicide, insecticide and nematicide
• Best in Class cotton seedling protection
• Key attributes - more robust plants, better roots, earlier boll set with less hardlocked bolls
• Early lint yield data indicates similar yields to competitive (abamectin-based) seed treatments
• Better Return on Investment potential
• Ample supply- ready to ship by January 2017
• Flexible sku sizes to finish out season
• Cotton, Corn and Soybean nematicide opportunities with BioST Nematicide 100

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