**BIOSt® VPH 100** is a Bio-Stimulant seed treatment from a unique vegetal protein hydrolysate source that is hydrolyzed using a proprietary enzymatic process. **BIOSt® VPH 100** is comprised of a unique & consistent ratio of peptides & amino acids that promote enhance healthy seedling.

### BIOSt® VPH 100 Promotes:

#### Bio-Stimulant Response
- ✔ Enhance seedling emergence
- ✔ Root hair promoting peptides
- ✔ Precursors to Phytohormones Cytokinins, Auxins etc.

#### Nutritional Response
- ✔ Instant useable nitrogen source
- ✔ Natural chelating agent to enhance nutrient uptake
- ✔ Enhances rhizosphere microbes

#### Abiotic Stress Reduction
- ✔ Reduces effects from climate stress
- ✔ Induces disease & insect tolerance
- ✔ Triggers plant metabolism

Contact Your Seed Dealer or Ag Retailer for more information.
Not All Amino Acids products are created the same...

The BIOst® VPH 100 formulation is focused on using only plant derived amino acids in a rate and ratio that is beneficial when applied to all crops.

Importance and Functions of Amino Acids

- **Glutamic Acid** - Stimulates plant growth and increases resistance to adverse climate conditions. It’s necessary in large quantities as a precursor of new and other amino acids.
- **Serine and Valine** - Improves the resistance mechanisms of plants to adverse situations.
- **Lysine and Arginine** - Active and essential in the stimulation of Photosynthesis.
- **Aspartic Acid** - Important for its intervention in many metabolic processes.
- **Methionine** - Increases yield and quality.
- **Tryptophan** - Precursor for the synthesis of auxins.

**Average Yield Response from BIOst® VPH 100:**

- **Corn** 9.26 bu/A (3 year avg)
- **Soybeans** 2.48 bu/acre (3 year avg)
- **Wheat** 1.5 bu/A

**BIOst® VPH 100 Use Rates:**

- **Corn** - 1.0 to 2.0 fl oz/cwt
- **Soybeans** - 0.75 to 1.0 fl oz/cwt
- **Wheat, Barley & Oats** - 0.50 to 1.0 fl oz/cwt
- **Rice** - 1.0 to 2.0 fl oz/cwt
- **Dry Beans, Peas, Lentils & Chickpeas** - 0.50 to 1.0 fl oz/cwt
- **Cotton** - 0.50 to 1.00 fl oz/cwt
- **Canola & Sunflowers** - 1.0 to 2.0 fl oz/cwt
- **Sugarbeets** - 1.0 to 2.0 fl oz/cwt
- **Sorghum** - 1.0 to 2.0 fl oz/cwt
**Corn 3 Year Summary: BIOst® vs F&I Control**

Corn Yield Comparison (bu/A)

Avg. 9.26 bu/A yield increase (86%)

*Use rates 1 to 1.5 floz/cwt

**Soybeans 3 Year Summary: BIOst® vs F&I Control**

Soybeans Yield Comparison (bu/A)

Avg. 2.48 bu/A yield increase (74%)

*Use rates 0.75 to 1.0 floz/cwt
**BIOst® VPH SEED ENHANCEMENT DELIVERS PROVEN PERFORMANCE ON CORN**

Consistent performance, field data from Three-years demonstrates increased yields and profits 86% of the time.

**3 Year Summary: BIOst® VPH vs F&I Control**

Corn Yield Comparison (Bu/Ac)

- Avg. 9.26 bu/A Yield Increase
- Positive Yield Response 86% of the time

* Use rates 1 to 1.5 floz/cwt

**BIOst® VPH 100 Seed Treatment Delivers:**
1. BIOst® VPH provides a Bio-stimulant Response, Enhanced Nutritional Response & Abiotic Stress Reduction
2. Faster and stronger emerging corn seedlings
3. A positive yield increase over the fungicide and insecticide alone over 88% of the time
4. A average yield increase of 9.26 bu/ac over using a fungicide and insecticide alone

For more information on the BIOst® VPH 100 contact a member of the Albaugh Seed Treatment Technology Team. Jay Stroh @ Jays@albaughllc.com, David Winston @ Davidw@albaughllc.com or Lee Stewart @ Lees@albaughllc.com

Refer to the product label for complete directions and instructions. BIOst® is a trademark of Albaugh, LLC.