



BioLiNE® products have a proven track record of outstanding and consistent performance with millions of acres of on-farm application. Our technology is essential to supporting crops' natural defenses, helping them achieve their innate genetic yield potential. Our fulvic acid products are naturally derived from upcycled peat. By isolating the smallest fulvic fractions with high oxygen content, the result is a very bioactive liquid that can more easily penetrate cell membranes and help transport and assimilate nutrients, and other plant beneficial ingredients such as enzymes, sugars, and plant metabolites more efficiently.

Legumes

Recommended BioLiNE® Application

Timing and Rates for Legumes

Pre-plant: Apply BioLiNE® at 500-750ml (16-24oz) per acre as a soil treatment specifically to lower organic matter soils, eroded soils, lighter textured, more droughty soils or in high pH soils where nutrient tie-up is greater. Apply to soils where there are other restrictions such as sodium (>2% sodium base saturation) or aluminum toxicity (pH<5.3).

At planting: Apply BioLiNE® at 300ml (10oz) per acre with in-row fertility to enhance nutrient uptake.

Post Emergence: Apply BioLiNE® at 500ml (16oz) per acre with foliar nutrition or pesticides. Suggested timing: rapid vegetative growth, flowering, and pod fill.

Side Dress: Apply BioLiNE® at 20ml-40ml (~1oz) per gallon of solution; with nitrogen fertilizer (28-0-0) to reduce the losses and enhance the response and efficiency of the nitrogen.

Location:

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Benefits of BioLiNE[®]

The innate genetic yield potential for crops far exceeds what is achieved on farms. Much of this yield loss is due to environmental (abiotic) stress endured by crops from seeding to harvest. Our innovation improves the physiological development of crops, better armoring them to adapt to environmental changes and preserve against yield loss. Our products are highly bioactive liquids that are easy to handle and can be mixed or added to almost all agricultural inputs.

Preserve Yield Potential

BioLiNE[®] products armor the plant to adapt better to environmental changes, and better preserve their innate, genetic yield potential under less than ideal growing conditions.

Improve Nutrient Efficiency

Empowered by Dynamic Nutrient Exchange™ (DNE) and superior cell permeability, our products elevate nutrient utilization efficiency resulting in improved crop health, physiological development and yield.

Increase Crops' Natural Defenses

BioLiNE[®] products deliver electrolytes and establish electrochemical balance, thereby boosting the crops natural defenses. BioLiNE[®] enhances the crops' ability to thrive in soils with high salinity, high sodic levels, or both.

Invigorate Soil Biology

Crop beneficial microbes thrive on plant exudates secreted from the roots of crops. BioLiNE[®] products increase the exchange of nutrients and organic molecules between microbes and the plant roots.

Improve Seed Germination

BioLiNE[®] products promote rapid and even emergence by nourishing crops, and soil microbes, and protecting the seed against environmental (abiotic) stress.

Increase Root Development

When BioLiNE[®] products are used as seed-coat or applied near the time of planting they propagate larger root mass.