



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.

Grapevines

Recommended BioLiNE® Application

Timing and Rates for Grapevines

Foliar Schedule Guide: Apply BioLiNE® at 0.33% or 650-1000mL (22-32oz) per acre as needed.

Foliar Key Times: Make first application at 5 leaves separated; shoots about 10cm (4in) long; inflorescence clear. Make second application pre-bloom. Make third application at 80% cap fall. Make fourth application at soft berry (veraison). Make fifth application post-harvest with urea as desired.

Fertigation Schedule Guide: Apply BioLiNE® at 1L (32oz) per acre as needed with fertilizer applications.

Fertigation Key Times: Bud burst, end of bloom, post leaf drop.

BioLiNE® products may be applied with most foliar fertilizer, insecticides, herbicides, and fungicides. A jar test may be used to determine compatibility.

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Benefits of BioLiNE[®]

Yield loss often occurs due to environmental (abiotic) stress endured by crops from seeding to harvest. Our innovative technology helps improve the physiological development of crops by increasing nutrient transport and assimilation, bolstering the crops' natural defenses against key stress factors throughout the growing season. Purified using our proprietary Fulv-IQ™ process, BioLiNE[®] fulvic acids are an essential tool for any grower.

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 help 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 Fruit Development

BioLiNE[®] products help prevent nutrient lockup to ensure nutrients are available when requirements are high. The result is increased fruit production and fruit size to maximize marketable yield.