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Improving Nutrient Utilization Efficiency with BioLiNE®

Our BioLiNE® technology transports and assimilates nutrients, and other plant beneficial ingredients more efficiently. Our products are highly bioactive liquids that are easy to handle and can be mixed or added to almost all agricultural inputs. Use BioLiNE® to improve your crops response to your fertility program.

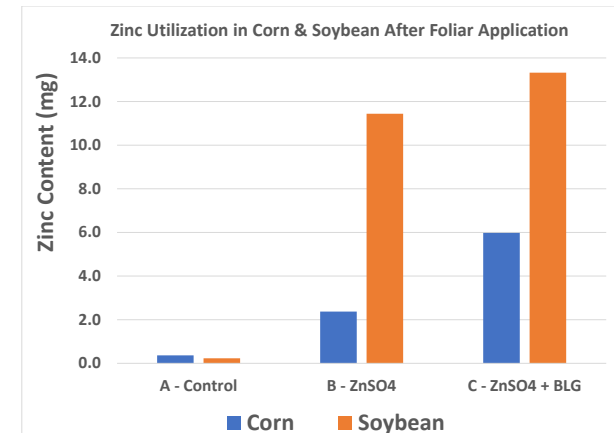
Zinc Mobility In Corn and Soybeans

Treatment: Control; Zinc Sulfate; & Zinc Sulfate + BioLiNE®

Application: 40 mg on corn & 30 mg on soybeans at V3

Results: Almost 3x the Zn utilized in corn with BioLiNE

	Corn (mg of Zn)	Soy (mg of Zn)
Control	0.4	0.2
ZnSO ₄	2.0	11.4
ZnSO ₄ + BioLiNE®	(+180%) 5.6	(+17%) 13.3



Overcoming Nutrient Insufficiency (Hydroponic Trials)

Treatment: Lettuce grown in deep water culture hydroponic system were given 25% of the required macro and micro nutrients

	Normalized Yield
Sufficient Nutrients	100%
Sufficient Nutrients + BioLiNE	143%
25% Nutrients	81%
25% Nutrients + BioLiNE®	100%

BioLiNE®
25% Nutrient



Control
25% Nutrient



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BioLiNE® Technology Better Than Fulvic Acids (Hydroponic Trials)

Treatment: Basil and lettuce grown in deep water culture hydroponic system and treated with different Fulvics. All results are normalized with control being at 100%.

		BioLiNE	Prod. A	Prod. B	Prod. C	Prod. D	Prod. E	Prod. F	Prod. G
Basil	Yield	205%	112%	57%	120%	72%	111%		
	Roots	212%	130%	64%	111%	83%	118%		
Lettuce	Yield	255%	111%				134%	239%	155%
	Roots	282%	118%				81%	343%	288%

Nutrient Acceleration at a Cellular Level

Empowered by Dynamic Nutrient Exchange™ and superior cell permeability, BioLiNE® products elevate nutrient utilization efficiency. As the table indicates, BioLiNE® technology is more efficient than most fulvic products in delivering nutrients to plant cells.

Corn (Colorado State University)

2018 Trials - Rock Rapids, IA site with low soil test for potassium (K). In a trial with seven replicates, treatment with BioLiNE® resulted in 6.1 bu/ac increase in yield, when BioLiNE® was combined with potassium acetate at 60lbs/ac rate a 10.7 bu/ac yield increase was observed. Multiple trials in previous years showed little to no yield response to the application of potassium acetate alone, leading researchers to believe that BioLiNE® improved the transport and utilization of potassium acetate in the trials. (181.1 to 191.8 bu/ac)

2018 Trials - Swede Home, NE site treatment with BioLiNE® resulted in 20 bu/ac response (4 replicates) (259.1 to 279.2 bu/ac)

Beans (Stoneville R&D Inc.)

2018 Trials - Foliar application (8 oz) of BioLiNE® resulted in 5 bu/ac response over control (64 to 69 bu/ac)

2017 Trials - Foliar application (8 oz) of BioLiNE® with Manganese (Mn) resulted in 9.3% increase in tissue concentration of Mn and 3 bu/ac yield response

Cotton (Stoneville R&D Inc.)

2017 Trials - Foliar application (8 oz) of BioLiNE® with Zinc (Zn) resulted in 38% increase in tissue concentration of Zn (55 ppm to 76 ppm)

At harvest the BioLiNE® treatments increased lint yield by 111 lbs per acre (515 to 626 lbs)

