



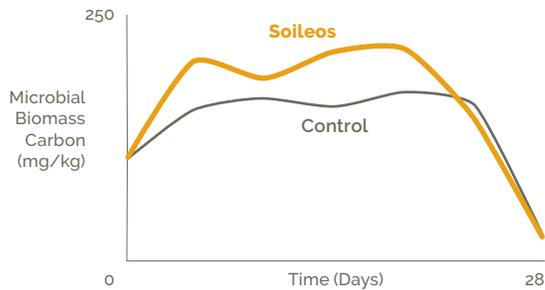
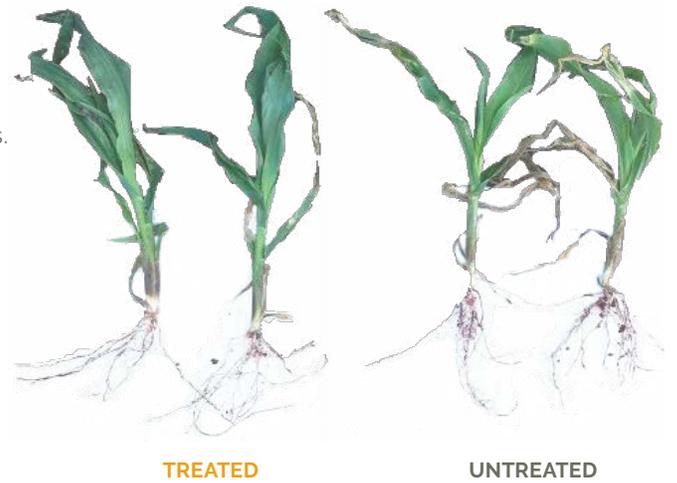
Soileos Zinc is a soil-applied crop nutrition product that enhances yields, crop resilience, and soil health through improved nutrient delivery and sustained bioavailability.

Why Soileos Zinc?

Lucent Bio's patented process binds nutrients to cellulose fibers and imparts a novel mode of action that differs from conventional micronutrient products like sulfate salts or chelates.

Zinc plays an essential role in:

- Protection from environmental stresses such as drought and temperature.
- Activating enzymes needed for protein synthesis and hormone regulation.
- Formation of chlorophyll and carbohydrates and conversion of starches into sugars.
- Root formation and growth — indirectly impacting water and nutrient uptake.



Soil Health

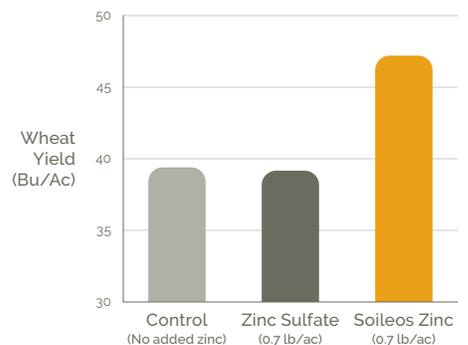
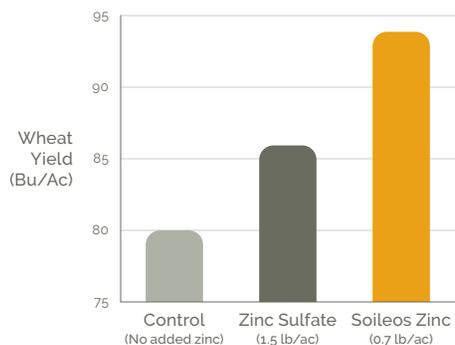
Nutrients delivered from Soileos to the crop lean on the symbiotic relationship of microbes in the soil. Studies with Soileos show that it improves soil health by increasing the microbial biomass in the soil by over 20%. The carbon in Soileos is fuel for your soil microbiome, and as the cellulose is broken down, microbes release or ingest nutrients.

The nutrients cycle through this natural process in a way that plants can access them throughout the growing season resulting in increased nutrient uptake and yield response.

Proven Agronomic Performance

Soileos Zinc can be used on many different crops. Trials have shown a great response with broad acre crops such as corn, soybeans, and wheat. Ask our team for detailed trial results for your crop and region.

See graphs for examples of Soileos Zinc applications in large-scale wheat and corn trials in 2021.



Soileos Zinc



GUARANTEED ANALYSIS	
Zinc	10%
Sulfur	5%
Potassium	10%
Cellulose Fiber	60%

Efficiency

Soileos Zinc is an excellent source of zinc for any fertility plan. Rates for Soileos Zinc can be based on at least a 2x efficiency factor compared to zinc oxy sulfate.

Low Salt

When the salt concentration is high near the seed, there is greater potential to draw water out of the roots, which can result in plant desiccation. Zinc sulfate has a salt index of 80+.

Soileos has a low salt index (22.04) and burn risk. Thanks to the mode of action, the risk of toxicity due to over application is reduced. The microbial community buffers the release of micronutrients in the plant root zone. Rate trials show that even 10x the recommended application rates have not induced phytotoxic response. Hence, Soileos can even be applied in-furrow and close to the seed.

Ease of Use

The Soileos pellet is durable. The material does not break down with shipping or blending with other dry fertilizer. Farms and retailers have shared the following feedback:

“Best pellet we've tested in our blending system.”
— Stan Loewen, Terralink, BC

“No problems putting it through the drill.”
— Curtis Birg, Wilcox, SK

“Product was easy to use. No dust or plugging issues.”
— D. S. Grain Farm, SK

“The product is nice to work with, flows well and meters out at an accurate rate.”
— Ryan T., Marquette, MB

Packaging Size

2,000 lb. totes or bulk delivery (see photo).

Field Application

Soileos Zinc is designed to blend well with other dry fertilizers and can be applied using existing field equipment such as air-seeders and strip-till rigs. Due to the low salt index, Soileos can be placed directly in the seed row.

Blending

When handled, the product has low dust and a high pellet durability index (PDI) of 95+, so it easily blends with standard dry fertilizer products without separation, settling, or breaking down.

Application Timing

Apply at or pre-plant with other dry fertilizer.



Call or email to see if Soileos is a good fit for your operation. Ask about our performance guarantees. Contact bryan@lucentbio.com or 778-726-9544. To learn more about Soileos, visit www.soileos.com.

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