

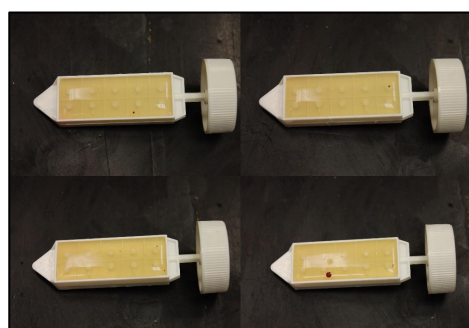
E. COLI BENCH SCALE STUDY

Atmospheric enrichment of CO₂ by gassing in protected horticulture operations has enhanced plant yields for decades. However, even sealed greenhouses must vent during warmer months resulting in the CO₂ gas escaping outside. This makes maintaining CO₂ gas levels of >800 ppm very difficult. Non-sealed structures such as hoop houses, tunnels, shade and net houses have open ends, roofs or are porous, making CO₂ gassing virtually impossible.

This means the vast majority of the 600 billion square feet of protected growers worldwide are not able to take advantage of CO₂ enrichment which is proven to result in up to 30% more yield as plants are able to enhance photosynthesis. [CO₂ GRO](#)'s patented revolutionary [CO₂ Delivery Solutions](#)[™] enables ALL protected grows to consistently deliver optimal amounts of CO₂ to their plants via misting a saturated CO₂ solution, resulting in **higher yields, faster growth, safely and profitably**.

Results:

- **99%** less *E. coli* growth



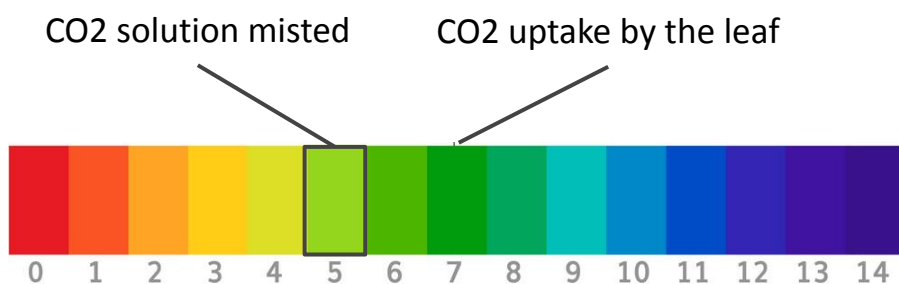
E. coli treated with CO₂ Delivery Solutions



E. coli untreated

E. coli Lab Study:

Bench scale study was performed at St. Cloud State University, MN using pepper plants to observe the effect of CO₂ Delivery Solutions on *E. coli*. Samples were taken from 4 untreated pepper plants and 4 pepper plants treated with misting saturated CO₂ solution. In the pictures on the left, the red areas indicate *E. coli* bacteria. Treated plants showed limited growth of *E. coli* (100 – 1,000 colonies) while the bacteria was abundant in the untreated samples (10,000 – 100,000 colonies).



- **pH fluctuation on the leaf surface significantly slows the spread of micro pathogens.**
- **CO₂ gassing alone does not provide this protection.**

All results shown were observed in demonstrations of CO₂ Delivery Solutions. Results may vary according to crop and growing conditions. CO₂ Delivery Solutions is not intended for use as a pesticide or herbicide. CO₂ Delivery Solutions is sold as a novel method for delivery of CO₂ to plants.

Delivering CO₂ to Growers Everywhere.

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