

ABIOTIC STRESS DEFENSE

Mainstay™ Si Reduces Abiotic Stress

BRASSICA

RESEARCH OBJECTIVE

The purpose of the trial was to measure how applications of Mainstay™ Si impacted plant levels of key antioxidants.

KEY OUTCOMES

Mainstay™ Si increased levels of key antioxidants in the plants, which in turn improved plant growth and quality.

BACKGROUND

Silicon has been associated with reducing abiotic stress. This trial was implemented to evaluate the molecular and growth characteristics with silicon inputs.

THE TRIAL



WHO:

Dr. José Antonio Vera Nuñez—Cinestav, Dr. Ávila Miranda—Instituto Tecnológico de Tlajomulco, and Dr. Guadalupe Rivas Casino—Universidad de La Salle



WHAT:

Product	Rate
Mainstay™ Si	17 oz./acre
Potassium Silicate	17 oz./acre



EVALUATION PARAMETERS:

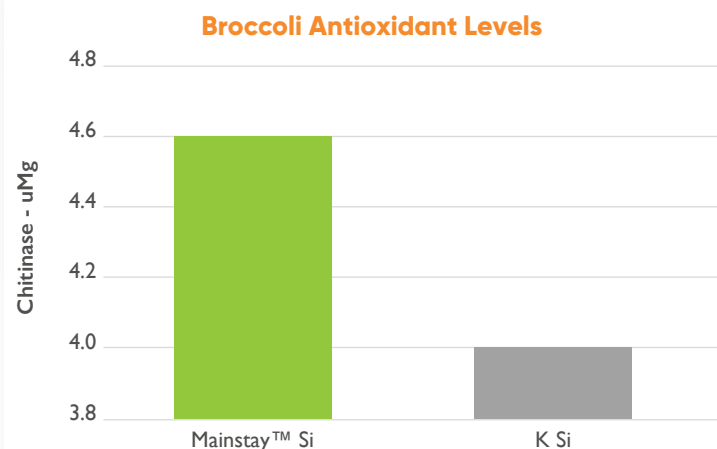
- Relative levels of chitinase
- Plant growth comparison



WHERE: El Bajío, Mexico—laboratory greenhouse



WHEN: The trial applications started 10 days post-emergence and were repeated weekly.



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