



JHBiotech
Innovation for a Greener Earth

Like Us On  <http://www.jhbiotech.com>
JH Biotech, Inc. Phone: (805)650-8933 Fax: (805)650-8942 E-mail: biotech@jhbiotech.com <http://www.jhbiotech.com>
JH Biotech, Inc. Florida. Phone: (863)537-1200 Fax: (863)537-1836 E-mail: jhbflorida@jhbiotech.com
JH Biotech, Inc. Texas. Phone: (830)557-4220 Fax: (830)557-4225 E-Mail: jhbtexas@jhbiotech.com

BIOMIN[®] CALCIUM



Amino Acid Chelated Calcium

Biomin Calcium is a bioavailable plant nutrient. **Biomin Calcium** is created using an encapsulation of the mineral calcium with amino acids and natural organic acids. Under normal circumstances calcium is subject to being tied up by other chemicals in the soil. Our patented process prevents the inactivation of calcium from occurring. The amino acid and organic acid shells protect calcium from interaction with other chemicals normally found in the environment. After it is inside the plant, the calcium is released and the remaining amino acids are used by the plant as a slow release source of nitrogen. Since the nitrogen is slow release, and present in small amounts, it does not produce unwanted vegetative growth after the flowering stage.



Advantages of Biomin[®] Calcium

- Increases fruit firmness
- Increases fruit storage time
- Fast acting correction of deficiencies
- Rapid leaf uptake and utilization
- Compatible with most fertilizers and pesticides
- Non-phytotoxic to plants
- No Asparagine / Acrylamide-Free

* This flyer is not valid in Oregon and California.

Raspberry Study

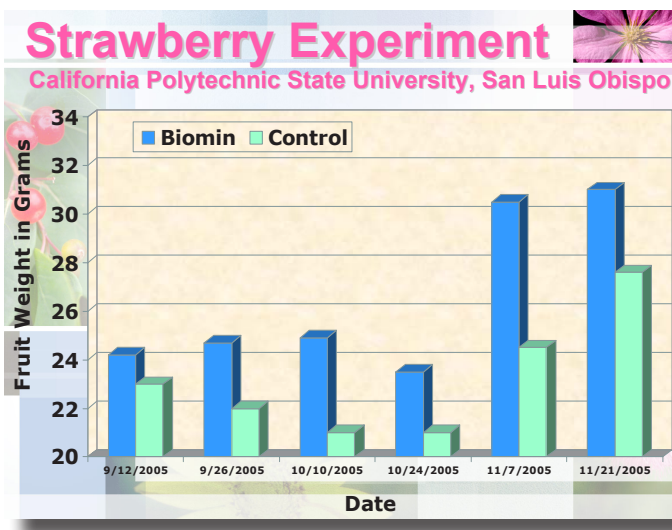
An experiment was performed by California Polytechnic State University in San Luis Obispo, California in 2008. **Biomin Calcium** was drip fertigated to 'Isabel' raspberries at a rate of two gallons per acre the first week and one gallon per acre per week for the following thirteen weeks beginning with flower bloom initiation. The experiment took place in a commercial production field in Watsonville, California. Leaf blade tissue samples and fruit samples were taken weekly for one season. Tissue sample results indicated that the plants were not nutrient stressed. **Biomin Calcium** treated raspberries yielded 426 more 4-lb crates per acre. This translated into a 10% increase in yield.

Magnesium competes with calcium to get into the plant. This competition reduces the amount of calcium available to the plant. Increased levels of magnesium can cause calcium deficiency. The samples in this study had lower magnesium concentrations than did non-treated plants. The calcium / magnesium ratio increased in the **Biomin Calcium** treated plants demonstrating successful competition. Yield increased 10% but quality was not sacrificed: Brix, individual berry weights, and raspberry juice pH were not statistically different.

General Recommendations

Biomin Calcium is completely bioavailable and non-phytotoxic to plants when applied according to directions.

Biomin Calcium may be applied to all crops: field crops, fruit trees, berries, vegetables, potatoes, grapes, citrus, bananas, dates, ornamental and nursery plants as well as turf.



JH Biotech, Inc.
Corporate Office
4951 Olivas Park Dr.
Ventura, CA 93003 USA

JH Biotech, Inc.
Texas Operation
360 Koepsel Road.,
McQueeney, TX 78123 USA

JH Biotech, Inc.
Florida Operation
1390 80 Foot Road,
Bartow, FL 33830-8765 USA

For labels and MSDS, visit our website at www.jhbiotech.com or call us at 805.650.8933

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