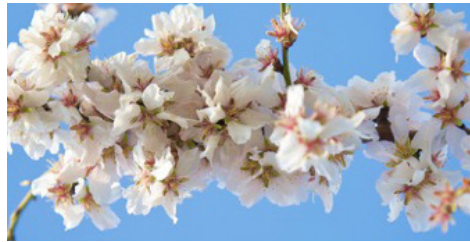


# CellMate® Foliar



AN ADVANCED 8% CALCIUM FORMULATION WITH .5% BORON



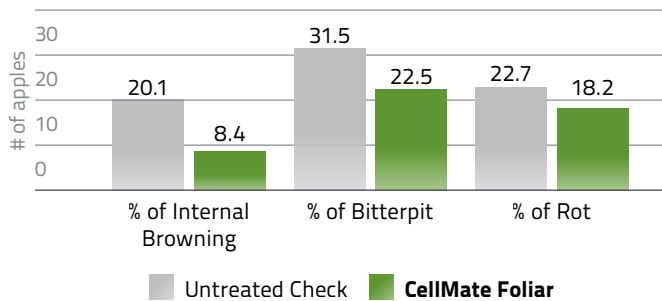
CellMate® Foliar is a premium, foliar-applied calcium product containing boron built with a proprietary blend of FBS Transit®, our patented technology, along with various organic compounds that together resolve calcium and boron deficiencies through improved foliar uptake and movement. CellMate Foliar is designed to resolve calcium deficiencies in all crops including tree nuts, vineyards, fruit, vegetable, grain, and forage crops. Even though calcium and boron are present in the soil they are often tied up and unavailable. CellMate Foliar by-passes these tie ups by promoting the rapid uptake, absorption, and translocation of nutrients within the plant.

- Supports Cell Division
- Increases Pollination & Set
- Improves Sugar Transfer
- Increases Cellular Strength
- Improves Plant Health & Quality
- Resolves Calcium Deficiency
- Resolves Boron Deficiency

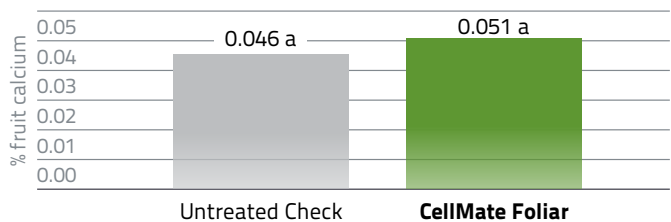
## Fruit Quality Study: Apples

Michigan State University

### Reduction in Fruit Disorders



### 11% Increase in Calcium



### Trial Results

- 33% Reduction in Fruit Bitterpit
- 30-50% Reduction in Internal Browning & Rot
- 11% More Calcium Content in the Fruit



# CellMate® Foliar

## TECHNICAL INFORMATION

The nutrient and organic compounds in CellMate® Foliar address calcium and boron deficiencies commonly present in many soils and is designed with the ideal ratio for maximizing crop health.

### Importance of Calcium in Plants

Calcium is essential for respiration, cellular strength, and rooting of a plant. Calcium is critical in cell division and cell wall integrity, which in turn, strengthen the plant structure. Uptake of calcium is primarily through the new root hairs and the root tip and promotes stalk strength and standability. The new growth and rapidly growing tissues of the plant are affected first by calcium deficiency, which can leave the plant vulnerable to other disease-causing organisms. Calcium deficiencies in plants are associated with reduced height, fewer nodes, and less leaf area.

### Importance of Boron in Plants

Boron is an immobile element that is essential in the synthesis of structural carbohydrates in the cell wall which promotes cell wall formation and strengthening. It is crucial for stages of rapid growth within the plant, such as pollination, seed production, and protein formation. It preserves the production and concentration of auxins, and is therefore vital in the formation of all new growth including roots, stems, leaves, flowers, fruit, and the vascular system. Boron also supports a balance between sugar and starch, and translocation of water and nutrition within the plant.

## RECOMMENDATION & COMPATIBILITY

For all crops apply 1 to 4 quarts per acre anytime during the growing season. Use the higher rate with spray volume greater than 50 gallons per acre. Repeat as needed.

Designed for foliar application in advance of visual deficiencies, CellMate Foliar should be applied as a foliar spray. CellMate Foliar may not be as effective if soil applied. May be applied in combination with other FBSciences' products such as PhotoGreen® Foliar and Zicron® Foliar.

Tank mix compatibility is impacted by water quality which may vary by location. DO NOT tank mix with phosphate fertilizers. When mixing CellMate Foliar with other materials always establish compatibility using the standard quart jar method prior to tank mixing. Products that contain sulfates may require agitation in order to assure compatibility.

See product label for complete Directions For Use.

## 3-0-0 GUARANTEED ANALYSIS

<b>Total Nitrogen (N)</b> .....	<b>3.0%</b>
<b>3.0% Nitrate Nitrogen</b>	
<b>Calcium (Ca)</b> .....	<b>8.0%</b>
<b>Boron (B)</b> .....	<b>0.5%</b>

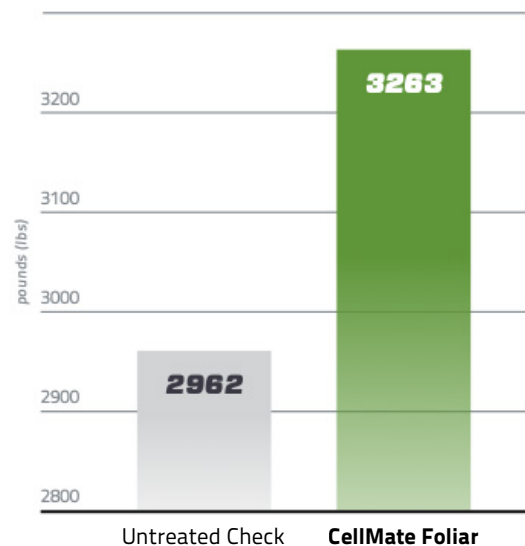
Derived from: calcium gluconate, calcium nitrate, and boric acid.

### Net Weight

11.7 lbs per Gallon @ 68° F

1.4 kgs per Liter @ 20° C

## KENTUCKY BLUEGRASS SEED 10% HIGHER YIELD, \$411 ROI



A study was conducted by Pratum Co-op to evaluate the ability of CellMate Foliar to increase yield in first-year Fielder Kentucky Bluegrass seed crops.

### Trial Results:

- 10% Higher Yield
- 301 Pounds More Seed Per Acre
- \$411 ROI

