

## ABIOTIC PLANT STRESS REDUCTION



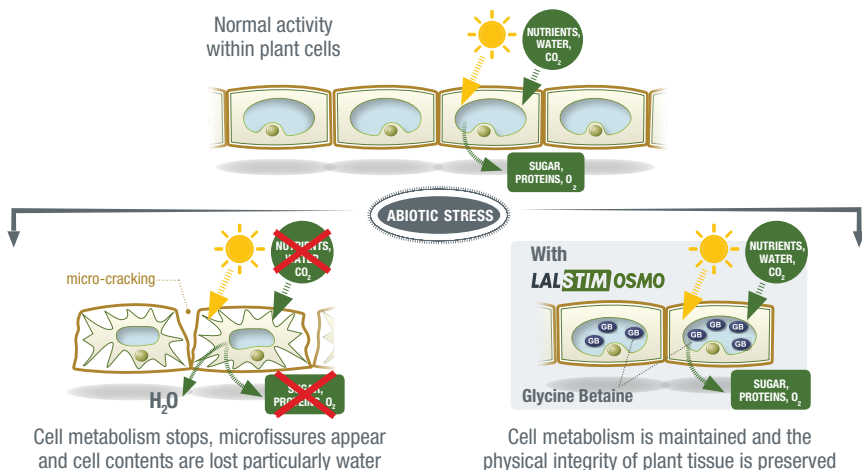
Build your plant's tolerance to abiotic environmental stress. LALSTIM OSMO is a **highly soluble wettable powder formulation of Glycine Betaine that provides persistent osmoprotection** so your plants can withstand harsh environmental conditions for several weeks. This water-soluble formulation is compatible with most tank mix inputs and is highly stable.

### ADVANTAGES

- Sustains plant performance under abiotic stress conditions.
- Improves water uptake and maintains crop resilience.
- Translocates into the plant within 24-48 hours and persists for several weeks.
- Minimizes yield losses caused by fruit injury such as bursting, mottling and cracking.
- Minimizes post-harvest fruit decline by preserving stability of cellular osmotic pressure.

### MODES OF ACTION

As an osmoprotectant, LALSTIM OSMO facilitates water uptake and retention, and adjusts the osmotic balance in plant cells and tissues. This allows for improved photosynthesis, nitrogen metabolism, and nutrient translocation during adverse environmental conditions such as heat, cold, drought, and high salinity.



### CHARACTERISTICS

#### Active Ingredient

Glycine Betaine >97%

#### Guarantee

> 2 x 10<sup>9</sup> CFU/g

#### Package Size

10 x 5 lbs

#### Storage information

Store sealed in the original packaging in a cool, dry place (< 77°F) for up to 36 months.

**Always read and follow label instructions.**

### RECOMMENDED CROPS



Greenhouse  
Fruit & Vegetables



Field-Grown  
Fruit & Vegetables



Ornamentals

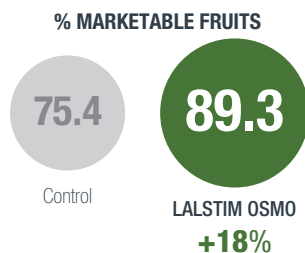


Stone & Pome  
Fruit Trees

## ✓ TRIAL RESULTS

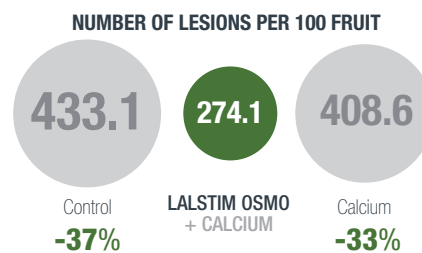
### Fruit Cracking on Apricot

Variety: Magic Cot.  
(Saint Gilles, France - 2014)



### Bitter Pit on Apple

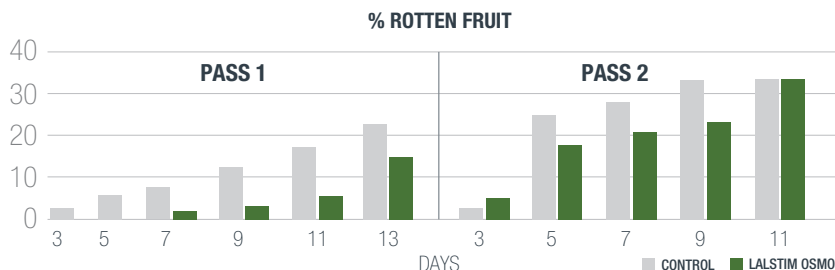
Variety: Golden  
(CEFEL, France - 2012)



## POST-HARVEST IMPROVEMENT

### Storage Rot of Nectarine

Variety: Moncante  
(GRCETA, France - 2013)



## APPLICATION RATES

CROP	APPLICATION RATE (lbs/acre)	APPLICATION VOLUME (U.S Gallons/acre)
Leafy vegetables (e.g., lettuce, spinach)	0.5-4	20-100
Fruiting vegetables and cucurbits (e.g., tomato, bell pepper, eggplant, cucumber, squash, melons, watermelon)	0.5-6	20-100
Grapevines	0.5-2	20-100
Fruit & nut trees (e.g., apple, pear, apricot, peach, almond, citrus)	0.5-6	20-150
Cherries	2-6	50-150
	2-6	25-150
Small fruit (e.g., strawberry, raspberry, blueberry, elderberry, currant)	1-6	20-150
Hemp & hops	1-4	20-100

Refer to the product label for additional crops.

Apply as a foliar spray to point of wetness. Add a compatible non-ionic surfactant to the spray suspension according to manufacturer's instructions to optimize coverage on plant surfaces and penetration into plant tissue. Compatible with pesticides and foliar fertilizers. It is best to check compatibility first using a jar test or by consulting your distributor or Lallemand Plant Care representative.

Timing varies by crop. Please check the label for target and timing of applications. Apply when relative humidity is high (e.g., evening or early morning) to allow the tissue to stay wet longer and ensure better uptake of LALSTIM OSMO in the plant. Repeat every 2-4 weeks.

### About Lallemand Plant Care

Since the beginning of the 20th Century, LALLEMAND has been an expert in yeast and bacteria manufacturing. The family-owned company is now a global leader in the development, production, and marketing of microorganisms for various agri-food industries. Using sound science and know-how, LALLEMAND PLANT CARE (LPC) works closely with clients to deliver the right technology, in the right formulation, for the right application. LPC is committed to solving grower challenges, significantly improving yield and crop vitality.