



## CHARACTERISTICS

**Active Ingredient**  
Glycine Betaine >96%

**Package Size**  
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

## ABIOTIC PLANT STRESS REDUCTION, BETTER POST-HARVEST SHELF LIFE

Build your plant's tolerance to environmental stresses. 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.

### ADVANTAGES

- Protects plant tissues against negative effects of environmental stresses.
- Improves water uptake and maintains crop performance and resilience.
- Reduces micro-cracking and desiccation injury.
- Facilitates plant recovery after stress.
- Improves post-harvest quality shelf life.

### 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 translocation during adverse environmental conditions such as heat, cold, drought, and high salinity.

### RECOMMENDED CROPS



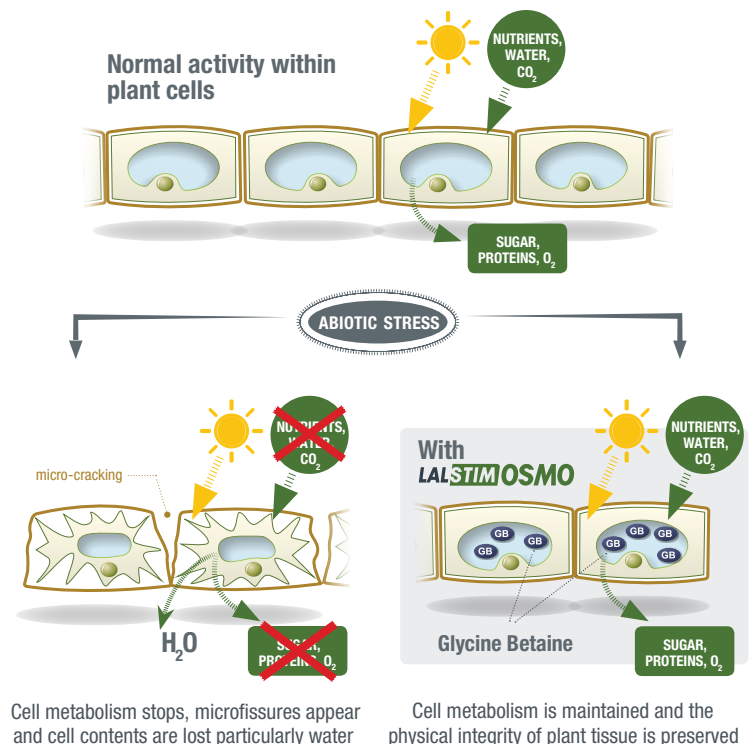
Stone and pome fruit trees



Ornamentals



Greenhouse, Field-grown  
Fruit & Vegetables



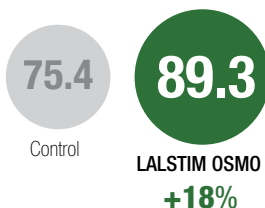


## TRIAL RESULTS

### Fruit Cracking on Apricot

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

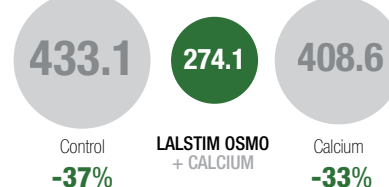
#### % MARKETABLE FRUITS



### Bitter Pit on Apple

Variety: Golden  
(CEFEL, France - 2012)

#### NUMBER OF LESIONS PER 100 FRUIT

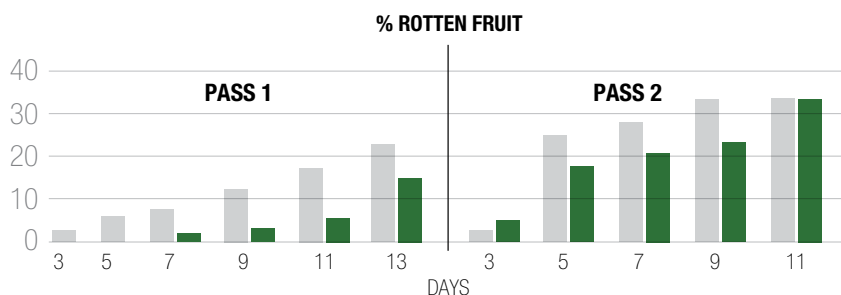


## POST-HARVEST IMPROVEMENT

### Storage Rot of Nectarine

Honey Royal  
(GRCETA, France - 2013)

■ CONTROL  
■ LALSTIM OSMO



## APPLICATION RATES

CROP	APPLICATION RATE (lbs/acre)	APPLICATION VOLUME (U.S Gallons/acre)	TARGET AND TIMING OF APPLICATION(S)
Woody ornamentals (nursery)	1 - 2	40 - 100	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions
Transplant propagation	1 - 2	40 - 100	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions
Greenhouse ornamentals	1 - 2	40 - 100	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions
Hemp and hops	1 - 2	40 - 100	Heat stress, drought protection: Every 3 weeks during hot summer months every 2-3 weeks during stress conditions

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. 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.

**Proud Contributor to COVAX-Unicef, #sharethehealth.**

The pandemic doesn't end for anyone, until it ends for everyone.  
<https://www.lallemandplantcare.com/en/usa/whats-new/we-support-the-covax-unicef-covid-19-vaccination-campaign/>



*Microbial By Nature*

[www.lallemandplantcare.com](http://www.lallemandplantcare.com)

XF-USA 0621



LALLEMAND PLANT CARE