

ABIOTIC PLANT STRESS REDUCTION



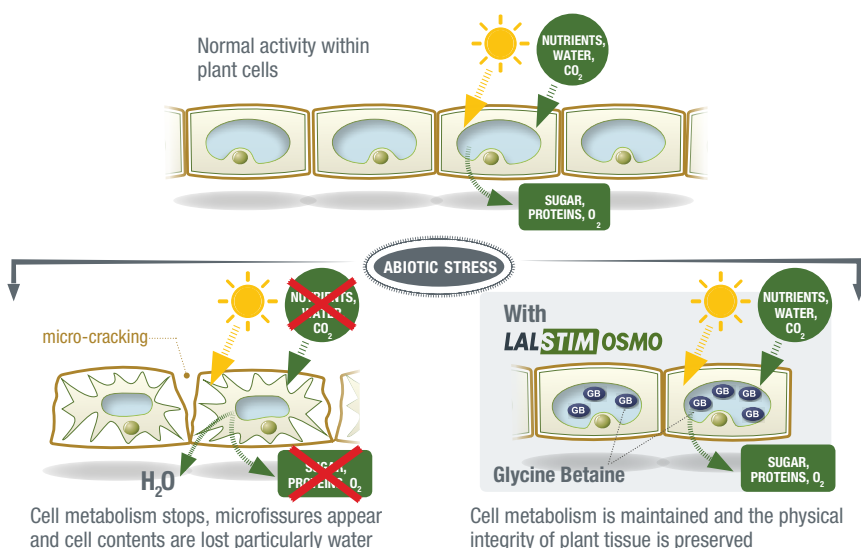
Build your plant's tolerance to abiotic environmental stress. LALSTIM OSMO is a **highly soluble wettable powder formulation of Glycine Betaine** that **provides persistent osmoprotection** so your plants can withstand harsh environmental conditions for several weeks. This water-soluble formulation is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

ADVANTAGES

- 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.



CHARACTERISTICS

Active Ingredient
Glycine Betaine >97%

Guarantee
> 2 x 10⁹ 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

Increase calcium mobilization, reduction of tip burn

Variety: Iceberg Lettuce (France)

% OF PLANTS WITH SYMPTOMS OF TIP BURN



30%

Control



7%

LALSTIM OSMO

NUMBER OF LESIONS PER 100 FRUIT

Bitter Pit on Apple

Variety: Golden (CEFEL, France - 2012)

433.1

Control
-37%

274.1

LALSTIM OSMO
+ CALCIUM

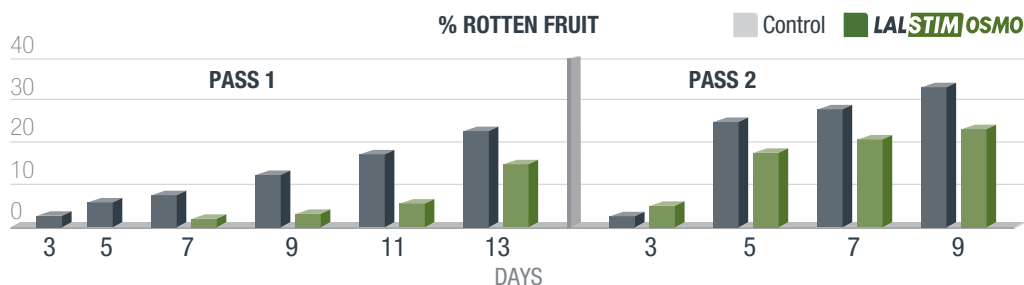
408.6

Calcium
-33%

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)	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

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. 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

For over 100 years, Lallemand has been an expert in yeast and bacteria manufacturing. It is now a global leader in the development, production, and marketing of microorganisms for various industries. Using sound science and know-how, Lallemand Plant Care provides effective microbial-based solutions that deliver agronomic, economic, and sustainable value to growers.