

ABIOTIC PLANT STRESS REDUCTION, BETTER POST-HARVEST SHELF LIFE

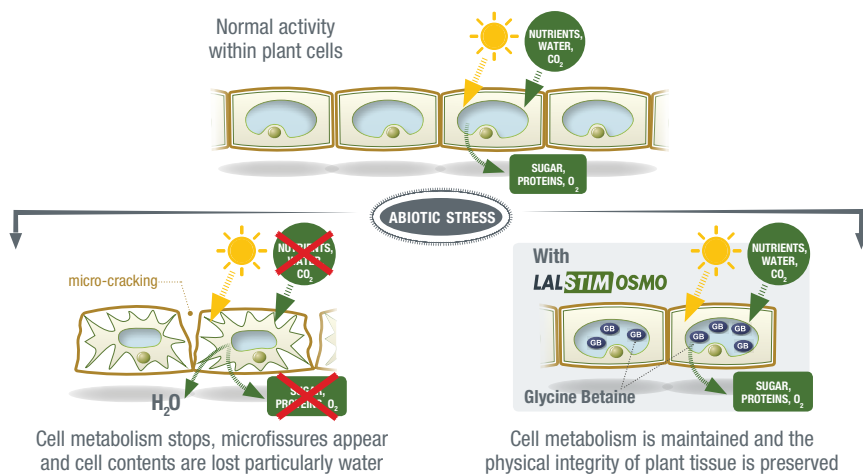
Build your plant's tolerance to environmental stresses. LALSTIM OSMO is a **highly soluble wettable powder formulation of Glycine Betaine** that provides **persistent osmoprotection** so your plants can withstand harsh environmental conditions for several weeks. This water-soluble formulation is compatible 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

- Highly-concentrated Glycine Betaine >97%
- Approved for organic production

Package Sizes

2 kg bag

Storage Information

Store sealed in the original packaging in a cool, dry place (<25°C) for up to 36 months.

Always read and follow label instructions.

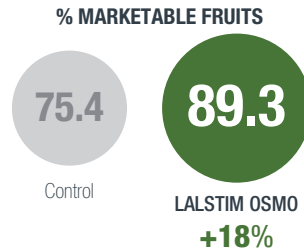
RECOMMENDED CROPS

- Greenhouse Fruit & Vegetables
- Field-Grown Crops
- Ornamentals
- Stone & Pome Fruit Trees
- Tubers

TRIAL RESULTS

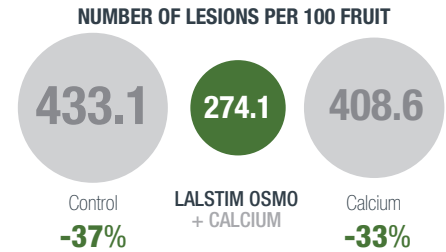
Fruit Cracking on Apricot

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



Bitter Pit on Apple

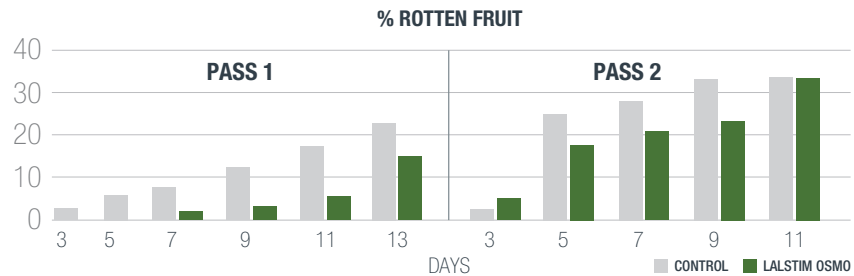
Variety: Golden
(CEFEL, France - 2012)



POST-HARVEST IMPROVEMENT

Storage Rot of Nectarine

Variety: Moncante
(GRCETA, France - 2013)



APPLICATION RATES

CROP	APPLICATION RATE	APPLICATION VOLUME	TARGET AND TIMING OF APPLICATION(S)
Leafy Vegetables (e.g., lettuce)	2 kg/ha (2 lbs/ac)	400 - 800 L/ha (40 - 85 gal/ac)	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions
Fruiting Vegetables (e.g., tomatoes)	2 kg/ha (2 lbs/ac)	200 - 1,000 L/ha (20 - 110 gal/ac)	Tolerance to abiotic stress during flowering: Early flowering. Reduce cracking caused by abiotic stress: At early colour development of the fruits and repeated at later stage of fruit maturity.
Cherries	2 - 3,5 kg/ha (2 - 3 lbs/ac)	400 - 1,000 L/ha (40 - 110 gal/ac)	Reduce cracking caused by abiotic stress: Two applications; first at the colour change from green to yellow and second application 7-10 days later.
Ornamentals	1 - 2 kg/ha (1 - 2 lbs/ac)	400 - 1,000 L/ha (40 - 110 gal/ac)	Frost and heat stress: Spray 1-2 times every 2-3 weeks during stress conditions.
Tubers	1 - 2 kg/ha (1 - 2 lbs/ac)	225 min. kg/ha (25 min. gal/ac)	Spray at hook stage or walnut size and repeat 15 days later.

Refer to the product label for additional crops.

Apply as a foliar spray to point of wetness. Add a compatible non-ionic adjuvant 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 3-4 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.