



## CHARACTERISTICS

### Active Ingredient

- Highly-concentrated glycine betaine
- >97% pure
- Approved for organic production

### Formulation

Highly-soluble wettable powder

### Package Size

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

## GREATER CALCIUM MOBILIZATION FOR REDUCED BLOSSOM-END ROT

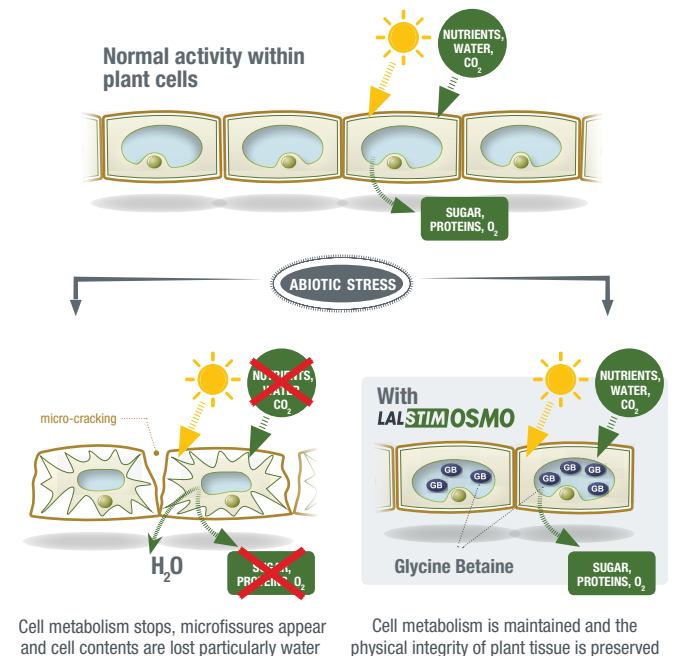
LALSTIM OSMO's active ingredient is an essential amino acid found naturally in many plant species. It is a source of nitrogen that provides energy for plant growth, aids in nutrient and calcium mobility and helps control plant stress during adverse abiotic environmental conditions.

### LALSTIM OSMO ADVANTAGES

- Increases nutrient mobility, including calcium.
- Reduces abiotic stress, improves water uptake and maintains crop resilience.
- Translocates into the plant within 24-48 hours and provides persistent osmoprotection for several weeks.
- Compatible with most tank mix inputs and is highly stable.
- 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

- Osmoprotectant, facilitates water uptake and retention, and adjusts the osmotic balance in plant cells and tissues.
- Improves photosynthesis, nitrogen metabolism, and nutrient translocation during adverse environmental conditions such as heat, cold, drought, and high salinity.
- Enhances the mobilization of nutrients such as calcium and trace elements.





SOLUBLE  
POWDER



OSMOPROTECTANT

## BLOSSOM-END ROT

**Symptoms:** Large brown to black areas of discoloration at the extremities of one or more fruits.

**Origin:** Lack of root absorption or poor transportation by the sap prevents sufficient calcium to the fruit, causing a calcium deficiency.

**Factors:** Abiotic Stress

- Heat (Thermic) stress: hot and dry periods (high transpiration)
- Water (Hydric) stress: insufficient or poorly distributed irrigation
- High salinity: insufficient watering or high electrical conductivity due to important nutrient applications to the crop

**LALSTIM OSMO PROVIDES GREATER CALCIUM MOBILIZATION BY PROMOTING RETENTION OR DIFFUSION OF WATER AND NUTRIENTS (CALCIUM AND TRACE ELEMENTS) THROUGH THE PLANT CELL MEMBRANE BY OSMOTIC PRESSURE MANAGEMENT.**



### APPLICATION RATES

Crop	Target	Timing	Application Rate (kg/ha)	Water Volume (L/ha)
Tomatoes	Reduce blossom-end rot caused by abiotic stress.	First application after fruit set. Second application 3 weeks after. Continue to apply if heat persists or irrigation is irregular.	2	500-1,000

Refer to the product label for additional information on application and timing.

*Microbial By Nature*

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



LALLEMAND PLANT CARE