



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 TIP BURN

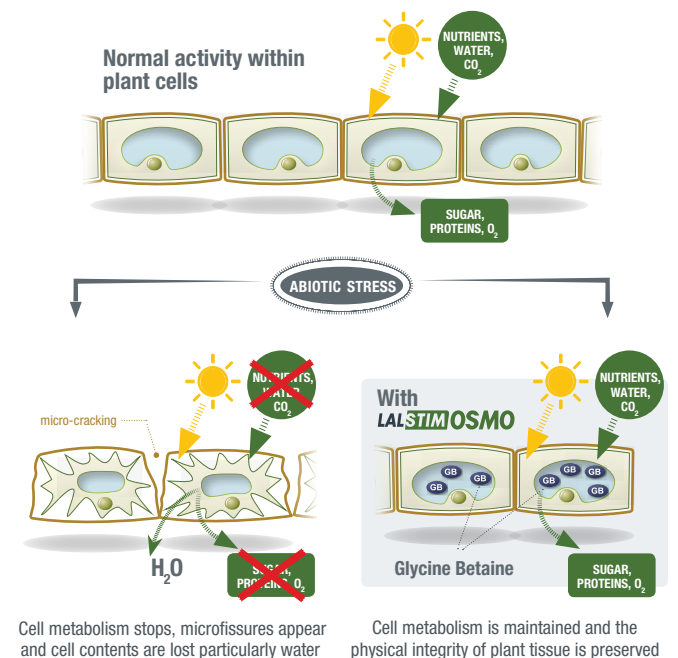
LALSTIM OSMO's active ingredient is an essential amino acid found naturally in many plant species. It is a source of nitrogen that provides energy for plant growth, aids in nutrient and calcium mobility and helps control plant stress during adverse abiotic environmental conditions.

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.





TIP BURN

Symptoms: Brown edges on the heart leaves or the crown of salad plants.

Origin: Insufficient transpiration of the plant disrupts calcium migration to the growing tissues creating a calcium deficiency.

Factors: Abiotic Stress

- High humidity
- Limited ventilation of shelters
- Extended periods of overcast foggy weather

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.

✔ TRIAL RESULTS: INCREASE CALCIUM MOBILIZATION, REDUCTION OF TIP BURN

Variety: Iceberg Lettuce

% of plants with symptoms of Tip Burn



30%

Control



7%

LALSTIM OSMO

France

APPLICATION RATES

Crop	Target	Timing	Application Rate (kg/ha)	Water Volume (L/ha)
Lettuce	Reduce tip burn caused by abiotic stress.	Preventive, before the first signs of browning appear (rosette stage with 3-4 leaves). Apply again 3 weeks after the first application.	2	500-1,000
	Frost and heat stress.	Spray 1-2 times every 2-3 weeks during stress conditions.	2	400-800

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