

LALSTIM OSMO



WETTABLE POWDER

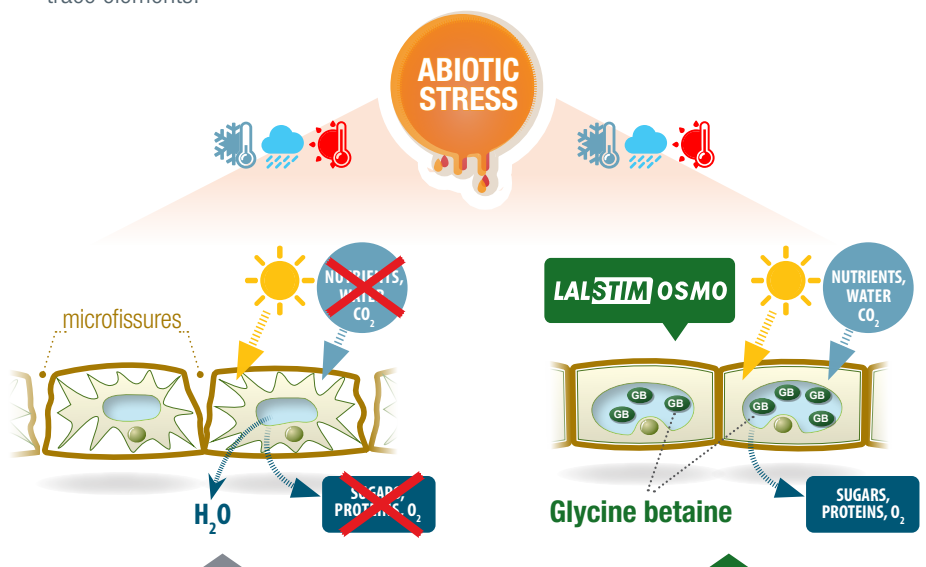
Ensuring yielding capacity of potatoes in stress conditions

LALSTIM® OSMO contains glycine betaine, an osmolyte naturally enhancing stress tolerance in plants. Glycine betaine is absorbed quickly by the plants, where it maintains the water balance and the normal activity of plant cells during environmental stresses. LALSTIM® OSMO increases yielding capacity of potatoes at the tuber initiation stage during stress conditions, including high temperatures and drought periods. Also improves the cold tolerance of potato plants.

MODES OF ACTION

LALSTIM® OSMO protects the normal physiological activity of plant cells during stress conditions:

- Maintains the water balance and prevents cell damage.
- Enhances photosynthesis.
- Improves the circulatory flow of water and nutrients, especially calcium and other trace elements.



During stress conditions, cell metabolism slows down, microfissures appear between cells and water is lost from the cell.

With the help of glycine betaine, normal cell metabolism and water balance are maintained.

BENEFITS

- Enhances tuber formation during temperature and drought stresses
- More uniform size distribution of tubers
- Increases starch content
- Improves the cold stress tolerance of potato plants

ADVANTAGES

- Absorbed within 24 hours
- Circulates systemically throughout the plant
- Active for 3 weeks
- A protective compound naturally occurring in plants

APPLICATIONS

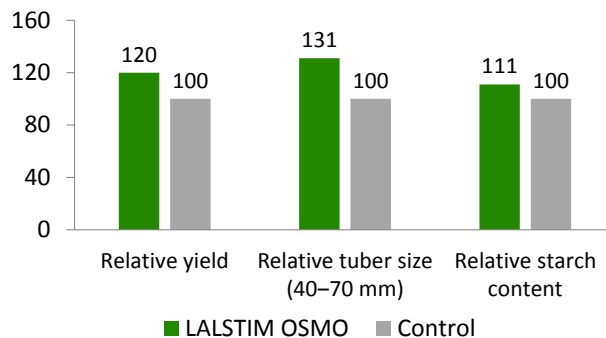
CROP	TARGET	DOSE	APPLICATION TIMINGS	APPLICATION METHOD
Potato	Reducing drought and heat stress, unifying the size distribution of tubers and increasing starch content of tubers.	2 kg/ha	In the beginning of the tuber initiation stage when the crop is 15-25 cm high.	Spray plants evenly moist. Water amount: 200-400 l/ha.
	Increasing cold tolerance.	2 kg/ha	24h before frost or low temperatures.	

- **Compatibility:** can be sprayed together with plant protection products and foliar fertilizers, except for formulations containing copper.
- The use of adjuvant/wetting agent in open field is recommended.
- The best conditions for spraying application are during windless and rainless weather, when the relative humidity is high.
- The maximum concentration of the spraying solution: 30 g/litre

RESULTS

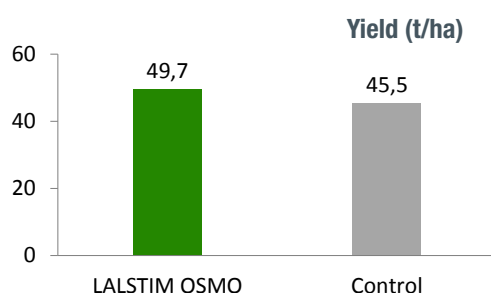
Increasing yield, uniform size distribution and starch content of tubers

LALSTIM OSMO spraying applied in the beginning of tuber formation increased the total yield, especially the yield of 40-70 mm tubers and the starch content of potatoes (cv. 'Matilda'). In the beginning of tuber formation potato plants were exposed to moderate temperature and drought stress. (Potato Research Institute, Finland)



Increasing yield and uniformity of tubers

LALSTIM OSMO spraying applied in the beginning of tuber formation increased the yield and the uniformity of tubers (cv. 'Amandine'). (France)



CHARACTERISTICS

- **COMPOSITION:** purified and crystallized glycine betaine from plant origin (97 %)
- **FORMULATION:** wettable powder
- **PACKAGING:** 2 kg
- **STORAGE:** 24 months at room temperature, in an unopened package
- **SUITABLE FOR ORGANIC AGRICULTURE**