



FitoMaat SL®

BIOSTIMULANT TO OVERCOME ABIOTIC STRESS CONDITIONS AND INCREASE CROP YIELD

Benefits of use

FITOMAAT SL® is a natural product with Glycine Betaine (N,N,N-trimethyl glycine) and Proline that helps crops to cope against abiotic stress such as: salinity, drought, extreme temperatures, cracking, water logging, etc. Thus, the use of **FITOMAAT SL®** avoid harvest losses due to abiotic factors maintaining the varietal potential of the crop.

FITOMAAT SL® has been elaborated to induce a synergetic response on plants under abiotic stress conditions.

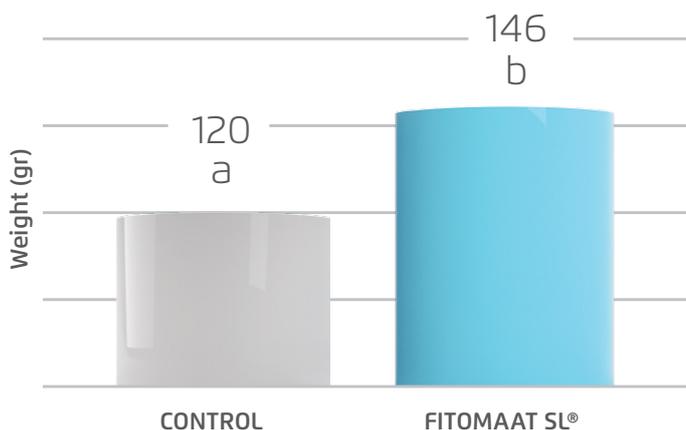
FITOMAAT SL® components allow the hydrophobic domains of the protein to become more accessible to water preventing plant protein from denaturation that can be caused by dehydration, and regulates cell water flux. Others roles have also been found, such as enhancing leaf chlorophyll content, protecting photosynthetic apparatus, maintaining the principal metabolic pathways, and finally, avoiding ROS overproduction (reactive oxygen species).

The application of **FITOMAAT SL®** reduce considerably some crop anomalies, such as cracking in fruits, russetting in apple and pear and improve crop performance and yield.

Efficacy trials

Effect of FITOMAAT SL® against hidric stress in vine var. Verdejo

Average bunch weight



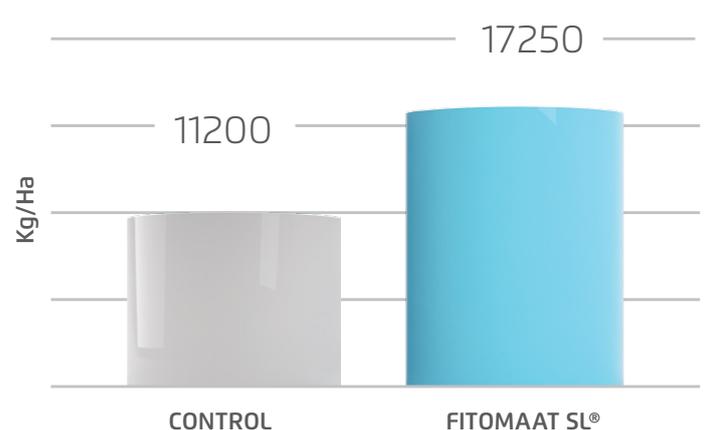
Composition

| | (%w/w) |
|--------------------------|--------|
| Glycine Betaine | 40.0% |
| L-free amino acids* | 6.0% |
| Total Nitrogen (organic) | 5.0% |
| Organic Carbon | 23.0% |
| Water soluble Boron (B) | 0.05% |
| Water soluble Zinc (Zn) | 0.5% |
| Proline | 6,0% |

*Amino acids derived from fermentation processes based on *Brevibacterium sp*

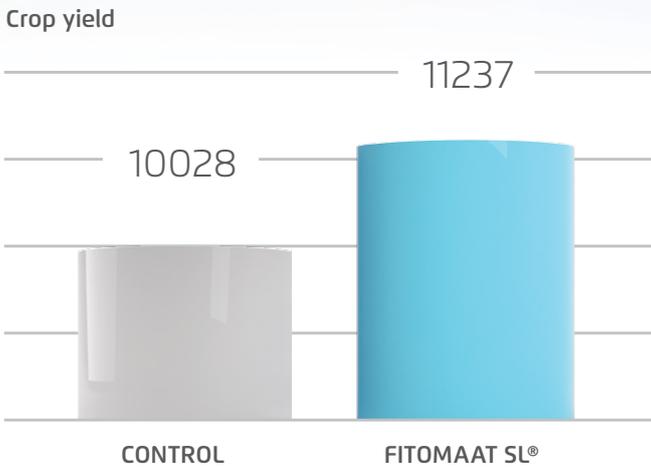
Effect of FITOMAAT SL® against abiotic stress in potato var. Kennebec

Crop yield

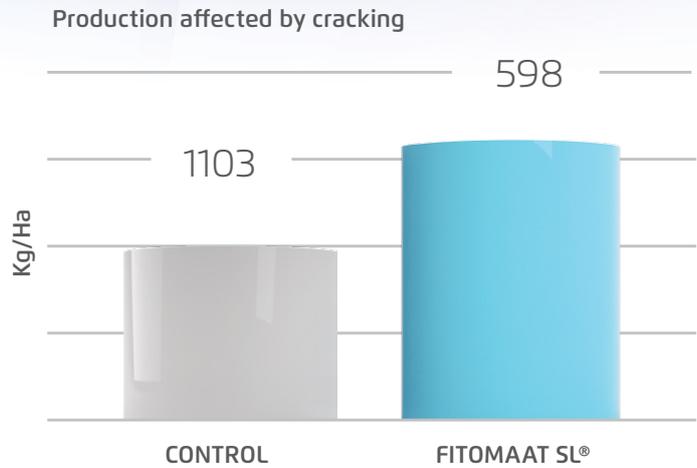




Effect of FITOMAAT SL® against abiotic stress in olive tree var. Arbequina



Effect of FITOMAAT SL® against cracking in plum tree var. Fortuna



System and time of application

FITOMAAT SL® is recommended to prevent and overcome stress conditions such as, drought, salinity, freezing, heat. Its use let to ensure high crop yields even under abiotic stress conditions. Can be applied by foliar spray or through irrigation system.

Stability and storage

FITOMAAT SL® is stable at least 3 years from the manufactured date.

Keep in a fresh and ventilated place with temperatures below 50°C.

Do not store for long periods under direct sunlight.

Keep away from children.

Do not eat, drink, or smoke while manipulating the product.

Dosage

| CULTURE | DOSE L/Ha | OBSERVATIONS |
|-------------------------------|-----------|--|
| Vegetables, melon, watermelon | 3-4 | First application at the beginning of flowering (first bunch) and 2 application during fruit generation (each 15 days). Increase crop yield and reduce cracking in fruit. |
| Citrus | 2-3 | At the beginning of flowering and repeat during petal drop and fruit growth. |
| Pome & Stone fruits | 4-6 | At colour changing from yellow to pink, and at the last phase of fruit maturity (pink to red). Treat 48 hours before heavy rainfall to avoid fruit cracking, particularly in cherries. |
| Olive tree | 3-4 | At the beginning of flowering, fruit set. To enhance the productivity on cultures under stress conditions. |
| Strawberry & berries | 2-4 | Three treatments during all the growth cycle. |
| Table grapes | 3-5 | During the vegetative cycle, and two applications during grape growth (To avoid the decrease in grape firmness). |
| Grasses (turf) | 3-4 | Apply each 03 weeks to avoid removal of glycine betaine from leaves. |
| Potato | 3-4 | At the beginning of tuber formation (tuber bulking). |

Compatibiliy

For mixing with any other product, it is necessary to conduct a compatibility test, in small volume. For further information, technical advices, or any enquiries, please contact your local distributor.