What is it?

FITOMAAT® is a **biostimulant designed to overcome and recover from hydric stresses**. **Fitomaat® contains glycine-betaine**, a natural osmoprotectant that protects plants under stressful situations, maintaining growth and production, preventing damage, aiding crop recovery and guaranteeing harvest yield and quality. It **also contains proline and antioxidant compounds** that generate a synergistic effect with glycine-betaine, helping the detoxification of plant cells.

FITOMAAT WG GUARANTEED CONTENT
WATER DISPERSABLE GRANULE

COMPOSITION	(%w/w)
Glycine Betaine	80.0
Proline	10.0
Physiological factors	0.5

FITOMAAT SL GUARANTEED CONTENT
SOLUBLE CONCENTRATE

COMPOSITION	(%w/w)
Glycine Betaine	40.0
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*

FORMULATION

The special formulation of FITOMAAT® improves the effectiveness of the osmoprotective action of glycine betaine, thanks to the synergistic effects of proline and antioxidants. FITOMAAT® is designed to act rapidly as its components are actively translocated from leaves to sensitive plant organs (fruits, roots, plant leaves), where they accumulate. FITOMAAT® formulation, as consequence, guarantees better, faster and more enduring effects compared to glycine betaine alone. FITOMAAT® can be applied with sprayers on foliage or on the ground through the irrigation system.

Dosage

CULTURE	DOSE Kg/Ha	OBSERVATIONS
Vegetables, melon, watermelon	2	First application at the beginning of flowering and second application during fruit generation (each 15 days). Increase crop yield and reduce cracking in fruit.
Citrus	1	At the beginning of flowering. Repeat during petal drop and fruit growth.
Stone Fruits Cherry and others	2-3	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	At the beginning of flowering, fruit set. To enhance the productivity on cultures under stress conditions.
Strawberry	1-2	Three treatments during all the growth cycle.
Table grapes	2-3	During the vegetative cycle, and two applications during grape growth (to avoid the decrease in grape firmness).
Grasses (Turf)	2	Apply every 3 weeks to avoid removal of glycine betaine from leaves.
Potato	2-3	At the beginning of tuber formation (tuber bulking).

FITOMAAT® is suitable for organic farming as all its components are extracted from natural sources. Glycine betaine is extracted from sugar beets. Proline and flavonoids are also natural products that are naturally present in plants and animals. FITOMAAT® is safe for users, environmentally friendly and it leaves no residue.



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ÖKO-GARANTIE BCS

fitoMaat®

BIOSTIMULANT TO OVERCOME AND RECOVER
FROM HYDRIC STRESSES CONDITIONS



CONTAINS GLYCINE-BETAINE

FORMULATED WITH OSMOPROTECTIVE AND ANTIOXIDANT COMPOUNDS

SUITABLE FOR ORGANIC FARMING

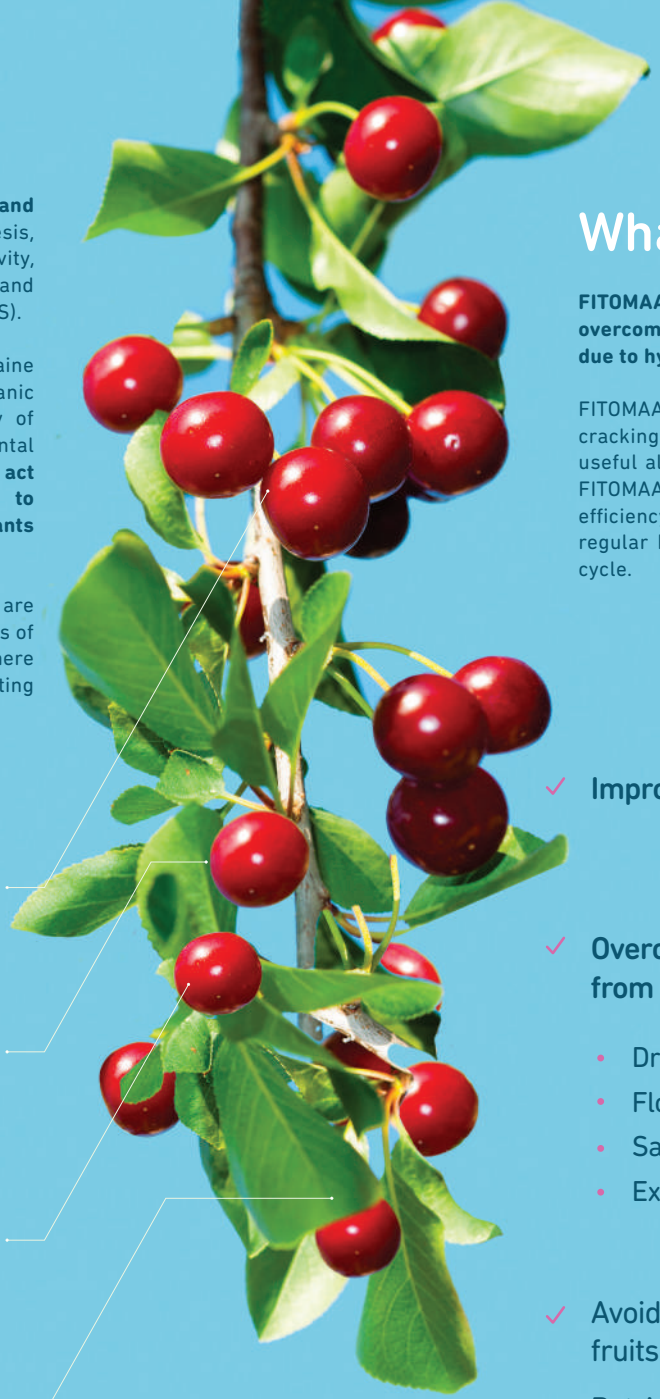
FUTURECO BIOSCIENCE

What does it do?

FITOMAAT® sustains plant fitness and growth by promoting photosynthesis, preserving macromolecule activity, maintaining membrane integrity and scavenging reactive oxidative species (ROS).

FITOMAAT® osmoprotectants (glycine betaine and proline) are two important organic osmolytes that accumulate in a variety of plant species in response to environmental stresses. **In FITOMAAT®, osmoprotectants act synergistically with antioxidants, to counteract metabolic dysfunctions in plants grown under stress conditions**.

The active ingredients of FITOMAAT® are actively transferred to the sensitive organs of the plant (fruits, roots, young leaves), where they accumulate, producing a long-lasting effect.



PRESERVES MACROMOLECULES AND ENZYMES ACTIVITIES

PROTECT PHOTOSINTHESIS MACHINERY

SCAVENGES REACTIVE OXIGEN SPECIES

MAINTAINS CELLULAR AND MEMBRANE INTEGRITY

What is it for?

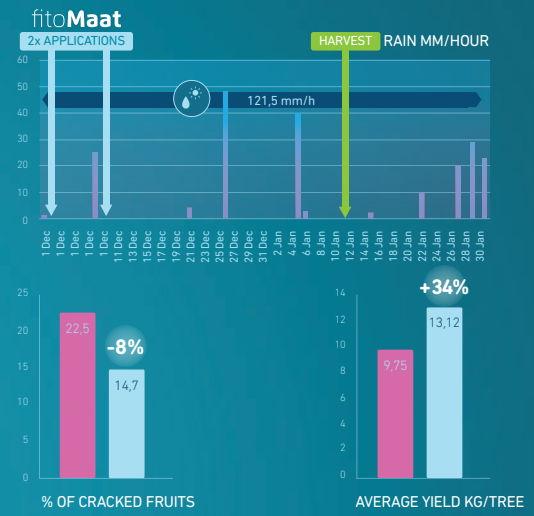
FITOMAAT® helps the plant to sustain, overcome and recover from damages due to hydric stresses.

FITOMAAT® avoids damages such as cracking and/or fruits drop and it is useful also after pruning. Importantly, FITOMAAT® improves water use efficiency. Its use is recommended on a regular basis throughout the growing cycle.

- ✓ Improving water efficiency
- ✓ Overcoming and recovering from hydric stresses:
  - Drought
  - Flood
  - Salinity
  - Extreme temperatures
- ✓ Avoiding cracking or fruits drop
- ✓ Retrieving after pruning

Fitomaat in practice: Field Trials

✓ ***REDUCES CRACKING AND INCREASES YIELD IN CHERRY CROP***



✓ ***OVERCOME DROUGHT STRESS AND AUGMENT QUALITY IN WINE PRODUCTION***

