

# MEGAFOL®

## VEGETAL AMINO ACID BASED BIOSTIMULANT

### Foliar nutrition based on organic matter

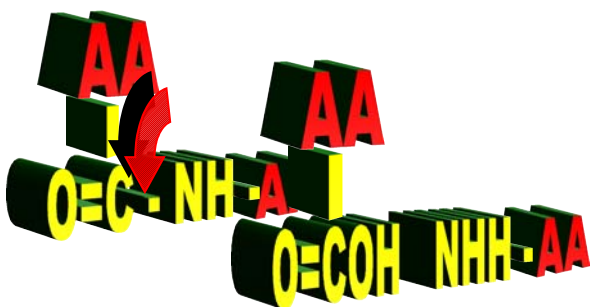
Foliar application of specific organic matters have demonstrated to be a powerful tool for:

- stimulating the plant to a more intense but balanced vegetative development;
- improving the effectiveness of usual soil and foliar mineral applications;
- curing or preventing nutritional disorders and/or physiopaties;
- making the plants overcome stress conditions affecting yields;
- increase efficiency of chemical treatments.

### General characteristics of the MEGAFOL®

#### *Free amino acids by vegetal origin*

MEGAFOL® is a biostimulant based on free aminoacids entirely derived from vegetal, proteins rich substrates. Proteins are long and heavy molecules where peptidic linkages bind single amino acids each other. Free amino acids are obtained through the chemical process called "hydrolysis" which breaks the linkage between each amino acid by inserting a molecule of water



**Enzymatic hydrolysis**

Further, the hydrolysis used to obtain the amino acids of MEGAFOL® is “enzymatic” instead of the acid one. The enzymatic hydrolysis used for MEGAFOL®, is carried out by microbial enzymes working at physiological temperatures without altering the characteristics of the extracts.

**Vegetal origin of amino acids: why so important?**

The vegetal origin of amino acids is so important as the amino acid ratio in vegetal extracts is similar to the ratio in plant tissues. This could be the main factor which determines the fast and balanced nutritional activity of MEGAFOL®, as the plants absorb organic matter promptly available.



**amino acids, precursors, endogenous hormones**

**Other components in MEGAFOL®**

MEGAFOL is enriched with vitamins and Iron (Fe) to meliorate metabolism activation due to free vegetal amino acids. Vitamins are involved in many fundamental metabolic processes and Iron (Fe) is one of the most important microelements for plant metabolism in general and plant photosynthesis in particular.

**Advantages by the use of MEGAFOL**

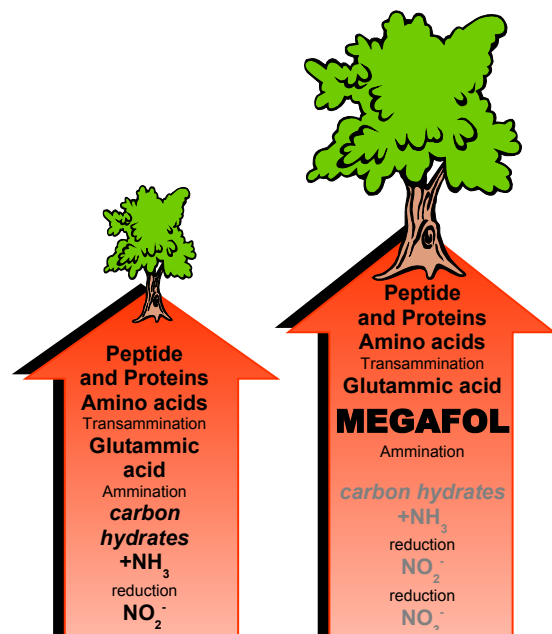
**Immediate nutritional action ...**

Foliar distribution of amino acids like those in MEGAFOL promptly activates the metabolism of plants. So, a fast and

balanced improvement of growth derives from MEGAFOL applications. In fact, amino acids could be considered as “energy savers” which, sprayed to the plants, permit they “build” tissues and productions with less work as we let the plant acquire something similar to “pre-fabricated blocks” when we spray the biostimulant.



IMPORTANT: MEGAFOL can not substitute mineral nutrition but it helps to improve the efficacy of mineral fertilisation because of the activation of the plant metabolism which make which make mineral nutrient more efficiently uptaken.



**... without unbalance the development of crops ...**

The increase of vegetative development never unbalance the growth of plants which never become too much vigorous.

Indeed, MEGAFOL is successfully applied to leaf and fruit vegetables and/or flowers where the product contributes to higher and better quality yields without any disadvantage due to a potential excessive vigour.

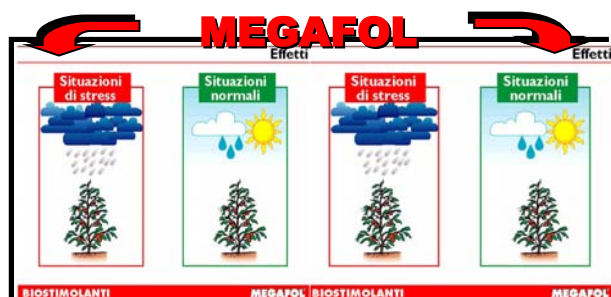
### ***MEGAFOL as a carrier***

MEGAFOL is profitably applied together with chemicals and foliar fertilisers for its capability to move active ingredients and nutrients into the tissues. The efficacy of MEGAFOL + a.i./fertiliser applications will be quicker and the risks of dropping will be reduced by the wetting action of MEGAFOL organic matter.

### ***MEGAFOL applied to reduce stress consequences***

The fast nutritional activity of MEGAFOL is useful when crops have to overcome various stress conditions (frost, drought, high temperatures, hail). In other words, when the plants result stopped because of various causes, MEGAFOL applications are able to activate a new vegetative and reproductive development, to preserve productivity expectations.

For this reason MEGAFOL is useful under “usual” environmental conditions but more and more under stress ones.



## INSTRUCTIONS FOR USE

<b><i>Crop</i></b>	<b><i>rate (ml/ha)</i></b>	<b><i>treatments</i></b>
Turfgras	15L/ha	Applications every 2-4 weeks during vegetative development
Stone fruits, Cherry, Apricots, Kiwi, Apple, Pear, Citrus, Vines, Grapes, Pomegranate	250 - 350	applications at 7-10 days intervals from petal fall and during enlargement of fruits (from 2 to 6 treatments depending on the length of plant cycle). Apply in all cases of vegetative set-backs when 2 - 3 treatments may be required to recovery the plants
Leafy vegetables	250 - 350 (150 - 200 greenhouse)	applications at 7 days intervals from soon after transplanting (to overcome transplanting shock) and during vegetative development
Melon, watermelon, cucumber, zucchini	250 - 350 (150 - 200 greenhouse)	applications at 7 - 14 days intervals from soon after transplanting (to overcome transplanting shock) and during fruit development; applications in all cases of vegetative set-backs
Tomato, Sweet and hot pepper, Aubergine, Chili	250 - 350 (150 - 200 greenhouse)	applications at 7 - 14 days intervals from soon after transplanting (to overcome transplanting shock), pre-blossom and during fruit development; applications in all cases of vegetative set-backs
Cereals	3 -3.5 L/ha	applications at 14 days intervals during vegetative development. Useful the combination with post-emergence herbicides and/or fungicides to help their activity and meliorate the overcoming from herbicide application stress
Nursery	150 - 250	Apply to vegetable, ornamentals and forestry seedlings to overcome vegetative setbacks or to revitalise seedlings that have been held back to slow growth down prior to delivery. Pre-delivery sprays will reduce transplant shock. Use the lower rate for seedlings produced in greenhouses and the higher rate for seedlings produced in the open