

# GRO AminoA<sup>®</sup>



**NATURAL BIOSTIMULANT FOR  
ALL CROPS AND GRASSLAND**

**Liquid Amino and fulvic acid  
biostimulant for organics**



OF&G  
ORGANIC

APPROVED FOR USE  
IN ORGANIC SYSTEMS

[www.aminoa.co.uk](http://www.aminoa.co.uk)

## **AminoA GRO and its benefits**

**AminoA GRO** is an easy-to-use liquid natural amino acid complex formulated to be suitable for use in organic production systems.

**AminoA GRO** combines 18 L-isomer amino acids with fulvic acid to enable efficient uptake by the plant without the addition of chemicals.

**AminoA GRO** has high nutritional value and releases and reinforces different reactions in the plant's metabolism. Its mode of action has a similar effect to that of plant hormones and natural growth regulators. Fully approved for use in organic systems by OF&G.

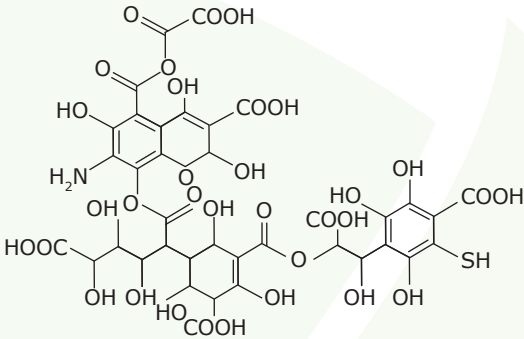
## **AminoA GRO and its role in plant metabolism**

- **Enhanced nutrient uptake and utilisation:** **AminoA GRO** improves the absorption and utilisation of essential nutrients by plants
- **Increased plant growth and development:** **AminoA GRO** stimulates plant growth and development, resulting in healthier and more productive plants
- **Improved stress tolerance:** **AminoA GRO** helps plants withstand adverse environmental conditions, such as drought and salinity
- **Optimised photosynthesis:** **AminoA GRO** enhances the efficiency of photosynthesis, leading to increased biomass production
- **Stimulated root development:** **AminoA GRO** promotes root growth and branching, improving nutrient and water uptake
- **Increased yield and quality:** **AminoA GRO** enhances crop yield and improves the nutritional and sensory quality of harvested produce
- **Improved soil health:** **AminoA GRO** enhances soil fertility, microbial activity, and nutrient cycling
- **Enhanced resistance to pests and diseases:** **AminoA GRO** boosts plants' natural defence mechanisms, making them more resistant to pests and diseases
- **Sustainable and environmentally friendly,** **AminoA GRO** offers a sustainable and eco-friendly alternative to synthetic fertilisers and pesticides suitable for organic farming systems

## Fulvic acid and its benefits for nutrient uptake and soil health

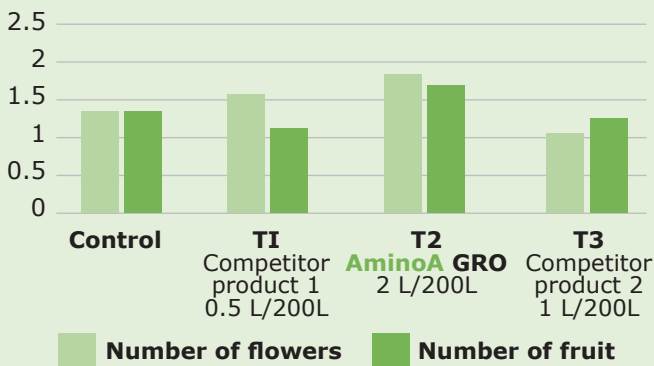
When fulvic acid is added to amino acids, the combined benefit is a synergistic effect that enhances the overall effectiveness of the amino acids.

### Molecular structure of fulvic acid



- Fulvic acid is a very small molecule allowing it to easily enter the plant through the stoma
- Fulvic acid's complex molecular structure allows it multiple binding sites
- Fulvic acid can form coordinate bonds with metal ions
- These bonds are stronger and more stable than single bonds
- Fulvic acid can chelate or bind to multiple metal ions simultaneously
- This enhances its ability to transport and deliver essential nutrients to plant cells
- The chelation process involves the formation of stable complexes between fulvic acid and metal ions

## Production of flowers and fruit 20 days after treatment. Strawberries, Carabyllo Peru 2023



## What our customers say...



*"I first tried using amino acids on conventional spring cereals with very good results. It has only been known within the last three decades, that plants can absorb organic nitrogen too, and applying amino acids can markedly improve plant growth and health.*

*I have made amino acids a major part of inputs for the organic crops. I am using **AminoA GRO** as (A) it is organically approved and (B) it is well priced. I have applied **AminoA GRO** to a field which was hammered with pigeons, they stripped the leaves.*

*Following the application of **AminoA GRO**, which was applied twice at 1.25l/ha each application, the crop visibly recovered in a couple of weeks. A lot of new root growth was stimulated which allowed it to scavenge more nutrients."*

**Andy Cheetham, Ceres Agri Services, Scotland**

## What our customers say...

*"I have witnessed significant yield responses on winter peas and beans, in both cases seeing between 4-5 t/ha, depending on the fields and soil quality, with just one spray of **AminoA GRO**. We saw about 40% less pods in the untreated peas, and less pods and tillering on untreated beans. I was very impressed, and after just one week you could see a response after spraying.*

*For potatoes, I am looking for oversize potatoes as they suit my peeling system so we can get them into vacuum bags quicker, and also for French fries, bigger tubers are better. Organic potatoes return a premium, so it is very cost-effective to use **AminoA GRO** which has seen me achieve good yields, and very good quality with a uniform shape and more equal tubers.*

*What I can say, across all our crops, is that **AminoA GRO** increases uptake of nutrients and organic fungicides, and in vegetable production brings much more uniformed food qualities, which leads to more value."*

**Tobias Klenke, Organic Farmer, Central Germany**



### Environmental benefits

- Improves the efficiency of other agrochemicals and fertilisers potentially reducing the amount applied.
- Is beneficial to soil and plant micro-organisms.
- Safe for the environment and user.



## Standard application rate

Apply at 2.5 Litre per ha in a minimum of 100L water.

Crop	When to apply AminoA GRO	Water l/ha	Dose Rates l/ha
Vegetables	From transplanting to harvest	100-1000 l/ha	2-5 l/ha
Fruits	From bud burst to harvest (also post harvest)	250-500 l/ha	2-5 l/ha
Flowers	During early development and before flowering	250-500 l/ha	2-4 l/ha
Potatoes	From early rosette stage to end of flowering	100-500 l/ha	2-5 l/ha
Asparagus	Make regular applications post harvest	500-1000 l/ha	2.5-5 l/ha
Vineyards	From budding until grapes are pea sized (only apply later through fertigation)	500-100 l/ha	2.5-5 l/ha
Cereals	From 1-2 leaf to end-flowering. For protein enhancement boots swollen-mid-flowering	100-200 l/ha	0.5-2.5 l/ha
Maize	From emergence on. Growth Stage V7 key target	100-200 l/ha	2-4 l/ha
Winter OSR	From emergence to end of flowering	100-200 l/ha	0.5-2.5 l/ha
Sugar Beet	From GS12, 2 leaves on	100-300 l/ha	2-4 l/ha
Various	Dip solution for asparagus crowns, fruit trees etc	100 lit	5.0 lit



**AminoA GRO** is fully approved for use in Organic agriculture by OF&G please contact [www.aminoa.co.uk](http://www.aminoa.co.uk) for more information. [enquiries@aminoa.co.uk](mailto:enquiries@aminoa.co.uk)



or call **01633 894300** to speak to our technical team, or call the UK office **+44 1633 894300**



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