

## Kinsidro® Grow+

PLANT GROWTH  
BIOSTIMULANT

### What is Kinsidro Grow+?

- Kinsidro Grow+ contains humic and fulvic acids, it is derived from sustainably grown Nordic pine forests.
- Kinsidro Grow+ is a highly concentrated formulation that contains a high ratio (62%), of fulvic acid which drives the biological activity in the plant.
- The humic substances found in Kinsidro Grow+ are bonded to essential macro and micronutrients that when applied in early spring help cereal crops recover from stressful winter conditions.
- Kinsidro Grow+ stimulates the production of polyphenols that help improve disease and pest resistance in plants and can become an important tank mix partner with a T0 or T1 fungicide application to help optimise disease control.

### How does Kinsidro Grow+ work?

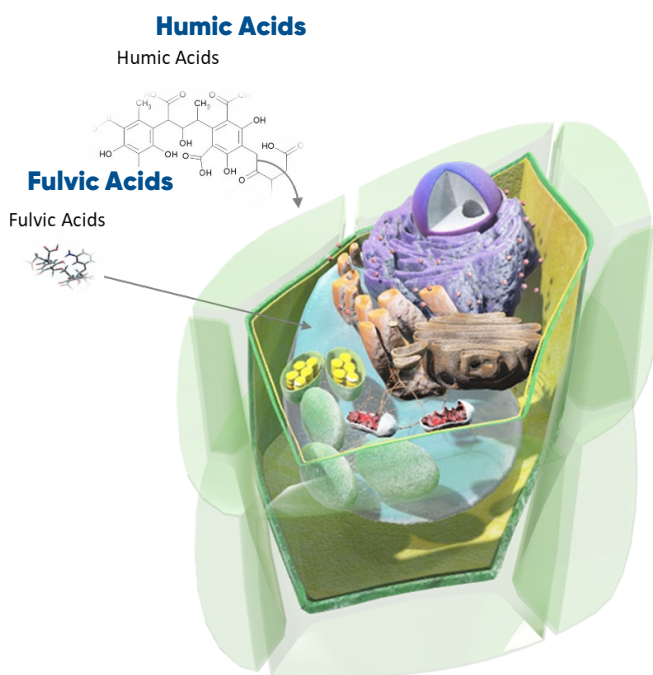
Fulvic and humic acids found in Kinsidro Grow+ have shown to have positive effects physiological processes in plants, such as:

- Stimulation of some hormonal pathways
  - Influences cell division and cell growth stimulating root, shoot and leaf growth
- Photosynthetic activity
  - Increases chlorophyll content
- Activation of some Enzymatic nutrition processes
  - Stimulates plant enzymes and improves nutrient uptake capacity
- Chelating properties
  - Fulvic acid is nature's way of complexing with essential macro and micronutrients, turning them into readily absorbable bio-available forms

**A foliar biostimulant for use in many crops including cereals.**

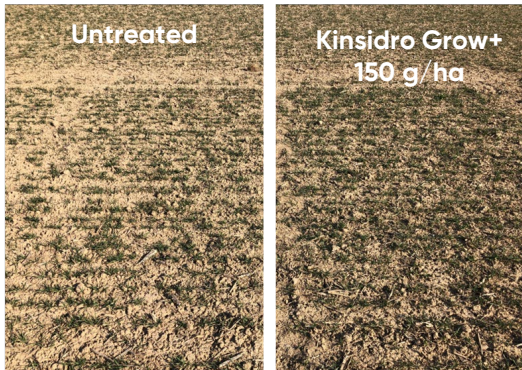
### Why apply Kinsidro Grow+ to cereals in spring?

- Helps cereal crops recover from winter stress conditions
- Improves pest and disease tolerance in plants
- Tank mix with a T0 or T1 fungicide to optimize early disease control

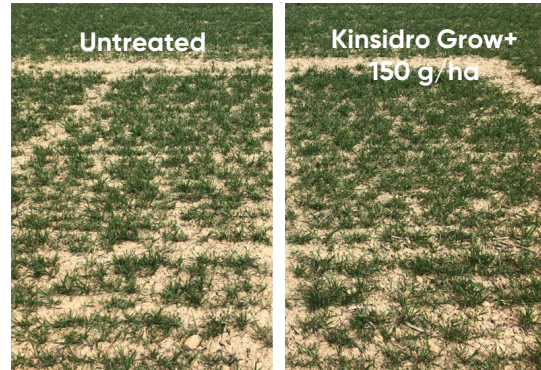


The molecular size of humic Acids (300 kDa) and fulvic acids (1 kDa) explains different properties : the smaller size fulvic acid molecules penetrate cell walls. Consequently, the fulvic acid fraction drives the biological activity of Kinsidro Grow+ in the plant.

**Kinsidro Grow+ contains a high concentration of Fulvic Acid explaining the increased activity in comparison to other "Humic" products.**

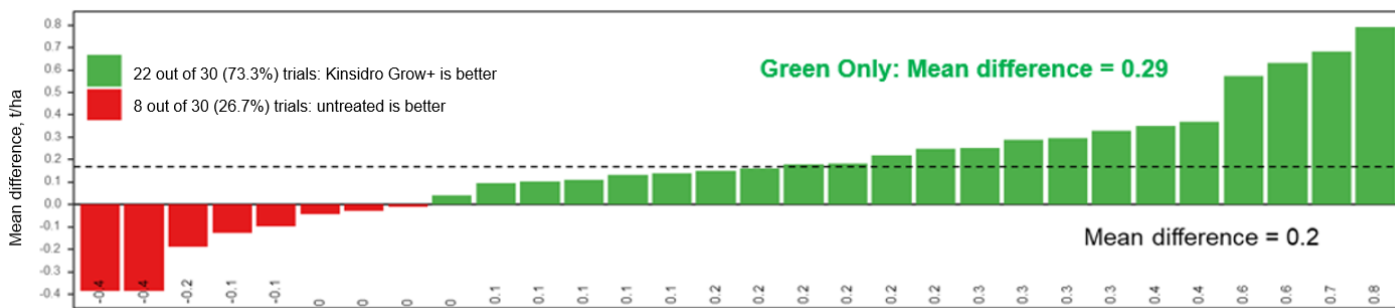


3 weeks after application



3 weeks after application

## Kinsidro Grow+ meta - analysis, 2023



### BENEFITS FOR FARMER

Kinsidro Grow+ investment: £12/ha  
Yield benefit: +0.29 t/ha = +£72.5/ha\*

*Winter Wheat £250/t*

### CONCLUSIONS

- In 73% of trials Kinsidro Grow+ gave a yield increase over the untreated with an average yield benefit +0.29 t/ha
- Across all the trials an average yield benefit is +0.2 t/ha

### KEY FACTS

<b>Composition</b>	Fulvic Acid, Humic Acid, Potassium Oxide (10%) Sodium Oxide (3.75%) Sulfur Trioxide (6.25%) Boron (0.04%) Cobalt (0.04%) Copper (0.04%) Manganese (0.04%) Molybdenum (0.005%) Zinc (0.05%).
<b>Pack Size</b>	1 kg
<b>Formulation</b>	Wettable Granules
<b>Water Volumes</b>	150 - 300 litres of water per hectare
<b>Spray Quality</b>	MEDIUM
<b>Nozzles</b>	All conventional nozzles
<b>Rainfastness</b>	3 hours

### RATES AND TIMINGS

Crop	Rate	Application Timing
Winter cereals	150g/ha	1 <sup>st</sup> application GS 12-14, 2 <sup>nd</sup> application GS 28-32. Optional additional timings GS 39 and/or GS 61
Spring cereals	150g/ha	GS 12-29