





Matching nutrition to your



Crop requirements



Environmental needs



Twoxo XL is a unique award-winning signalling molecule designed to increase nitrogen assimilation in plants and up-regulate photosynthesis.

The technology has many possibilities. It can increase crop establishment, growth and development, leading to increased yield and quality depending upon application, timing and dose. It is proven 2-oxo is superior to L-PGA, but the combination outperforms either separately.



What does it do?

The 2-oxoglutaramate (2-OXO) technology stimulates the plant to increase both CO_2 uptake as well as nitrogen. This creates a similar crop effect to that of elevated atmospheric CO_2 levels, increasing biomass and yield.



Application

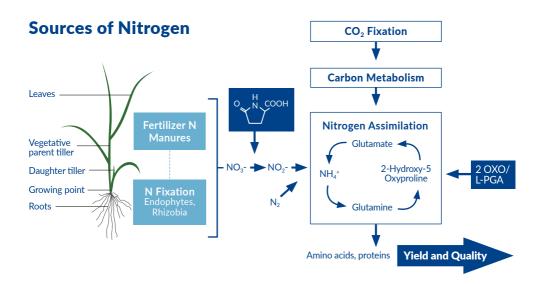
CROP	TIMING	DOSE
Cereals	GS 30 – 32 (trials optimum GS31)*	1.0 l/ha
OSR	G bud – mid flowering (trials optimum)*	1.0 l/ha
Potatoes	Onset and mid bulking*	1.0 l/ha x 2

^{*} Can be applied alone or with liquid N fertiliser

Enhance your nitrogen use efficiency and carbon sequestration to optimise crop production

How does it do it?

The unique combination of 2-oxo, L-PGA and y-PGA work synergistically to enhance nutrient use efficiency, increasing the assimilation of nitrogen co-ordinated with CO₂ fixation from photosynthesis. It is proven that 2-oxo is superior to L-PGA, but the combination outperforms either separately.



Features



- Improved root and shoot mass
- Increases fertiliser uptake
- Increases nitrogen assimilation
- Increases photosynthesis
 increased CO₂ fixation

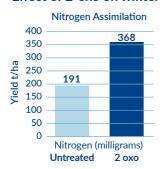
Benefits

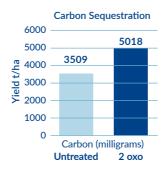


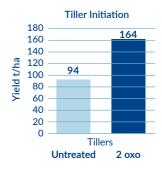
- Increases growth tillers
- Increases leaf protein
- Improved nutrient use efficiency
- Increases seeds/ear
- Increases soil microbial biomass
- Enhances yield/quality



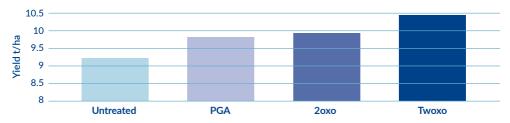
Effect of 2-oxo on winter wheat







Performance in the field



Effect on components of yield

Treatment	Yield t/ha	Ears/ m²	Weight of Ear	Grains/ ear	TGW	Kg/HI	Hagberg	Protein	Screenings 2mm
Untreated	8.38	124.6	1.89	32.81	57.6	73.6	193	12.81	0.73
Twoxo	8.69	141.8	2.08	35.98	57.8	76	199	14.08	0.77

All Information and the results are provided by Unium Bioscience Ltd.

Navigating Nutrition

Agrovista leads the way in progressive, cost-effective nutrient management. Years of research and development along with a tailored product range means we can provide expert advice on this complex area, working to match your crop requirements to environmental needs and your carbon footprint.

www.agrovista.co.uk/nutrition

Matching nutrition to your









Talk to your local agronomist for more information or scan the QR code to view online.



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