

## Introducing Ymapct – a new biostimulant seed treatment

**David Leaper, Agrii's Seed Treatment Specialist, shares his thoughts on Ymapct, Agrii's latest biostimulant seed treatment**

Ymapct is a new soil-resilience biostimulant based on a combination of humic and fulvic acids, along with key micronutrients. Bio-stimulants have always been an essential part of Agrii's seed treatment offer. We've tested hundreds of them at Throws Farm over the past 30 years and, to be honest, very few make the grade. As a result, we have focused primarily on Take Off, a phosphite-based treatment, over the past twelve years, and more recently, Vibrance Duo, a sedaxane-based treatment that has found favour with wheat growers in particular.

Wheat tends to be drilled later nowadays due to concerns about grass weeds, but this often coincides with cooling weather and deteriorating soil conditions. As a result, biostimulants are increasingly used to bolster establishment and produce a more robust crop.

There is also an increasing demand for bio-solutions driven by regenerative farming practices. Unfortunately, many of the biological products we have tested rely on optimal growing conditions to be effective. It is for this reason that we have chosen the humic and fulvic acids, as they have a direct bio-chemical effect on the root cell walls and a positive impact on cation exchange around the roots.

The inclusion of zinc, copper and manganese in Ymapct is also based on very sound evidence. These specific micronutrients are known to be crucial early in the crop's life cycle. Indeed, Agrii has offered each of these as high load seed treatments over the past eight years: Zax, Agnition and iMan, respectively. While the concentration in Ymapct is much lower, these nutrients still help to cover that all-important 'hunger-gap', the period before the crop can access sufficient nutrients from the surrounding soil.

We began testing Ymapct in 2022, conducting a series of five winter wheat trials, where it demonstrated equivalent performance to both Vibrance Duo and Nuello iN. More recently, we have tested it out in our new glasshouse facility at Throws Farm, where it showed a significant increase in root biomass compared with untreated, Beret Gold and Take Off + Zax treatments. These results, of course, supplement the trials that have been carried out over several years by Corteva.

All in all, we are delighted with the performance of Ymapct and we see it as a welcome addition to our portfolio. It is widely compatible with our other seed treatments. While we are focusing on its use in winter wheat, it can also be used across all winter and spring cereal crops, as well as peas.