

Technical Data Pack

Xbeet®
enrich 100

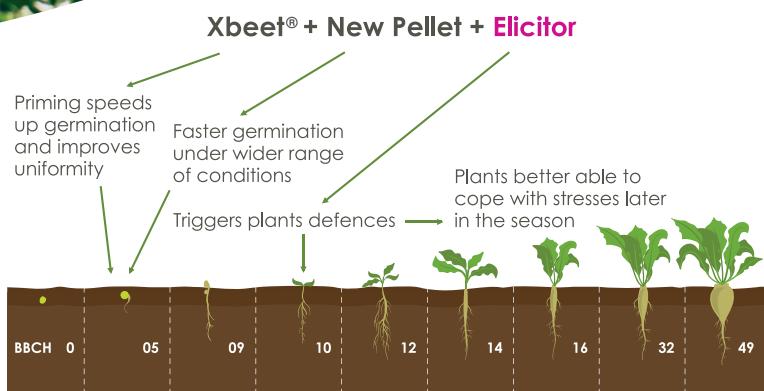
Xbeet®
enrich 200



germain's®
seed technology

We Maximise Nature's Potential®

Xbeet® enrich 100



Key Benefits

- Faster emergence in UK field conditions
- Greater leaf coverage
- Improved uniformity
- Stronger plants leading to increased yield potential

Xbeet® enrich 100 Explained

Xbeet® enrich 100 is a combination of a new pellet and elicitor treatment that promotes stronger plants, leading to greater yield potential (Figure 1).

What is an Elicitor?

Naturally derived elicitors set-off chain reactions that trigger different responses to not only pathogenic fungi and bacteria but also abiotic stresses such as drought, heat and cold.

Yield Results

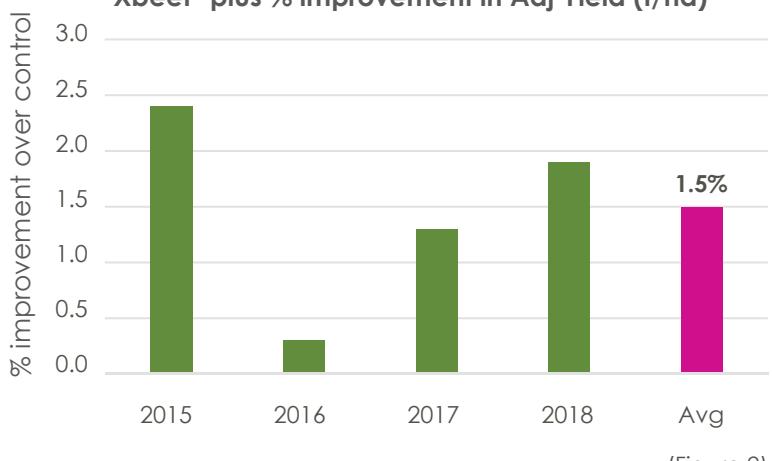
Small Plot Trials

Xbeet® enrich 100 demonstrated an average increase in yield of **1.5%** in small plot trials (Figure 2).

Strip Trials

Germain's strip trials have achieved a **4.4%** increase in yield, those that are as close as possible to commercial conditions.

Xbeet® enrich 100 compared to Xbeet® plus % improvement in Adj Yield (t/ha)





The Value of the Xbeet® enrich Series

Seed technology will play an even more important role in coming seasons in minimising possible yield losses due to the suspension of chemical treatments.

Therefore, it will be imperative to get the young plants to the 12-leaf stage as quickly as possible and this is where our Xbeet® enrich 100 and 200 products can support.

With faster emergence allowing the crop to achieve mature plant resistance quicker, our products boost early plant growth to maximise yield potential.


Xbeet®
enrich **100**


Xbeet®
enrich **200**



Key Benefits

- Boosts early plant growth
- Quicker canopy development
- Faster emergence in UK field conditions
- Greater yield potential

Xbeet® enrich 200 Explained

Xbeet® enrich 200 contains a plant derived biostimulant in combination with the elicitor to boost early plant growth (Figure 3).

What is a Biostimulant?

Biostimulants are defined as “materials, other than fertilisers, that promote plant growth when applied in small quantities”. This has been shown to boost early plant growth, helping plants during the most vulnerable stage of development.

Plant Weight

Xbeet® enrich 200 has shown an increase in plant weight, demonstrating the impact of the biostimulant in boosting early plant growth (Figure 4).

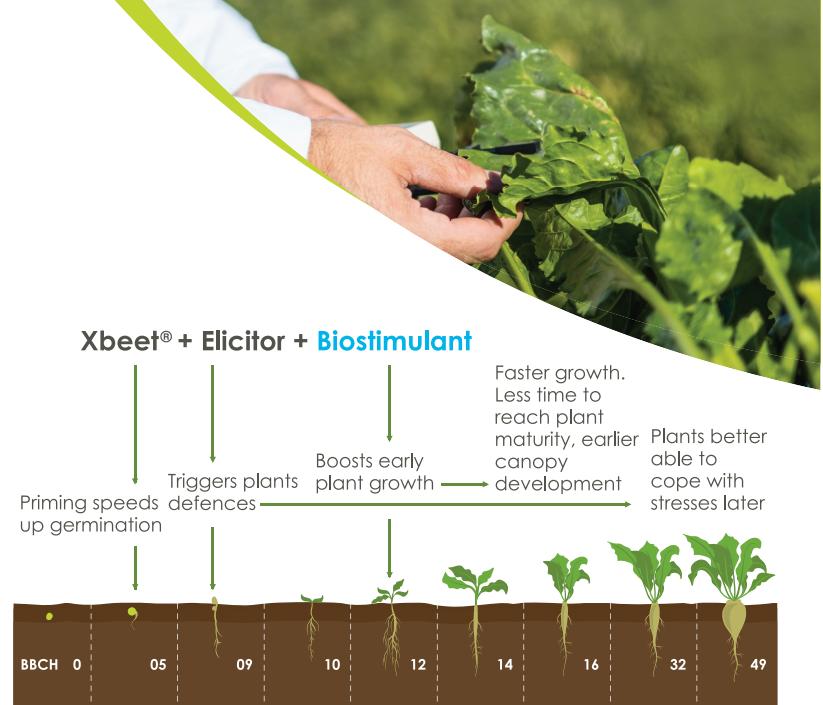
Yield Results

Small Plot Trials

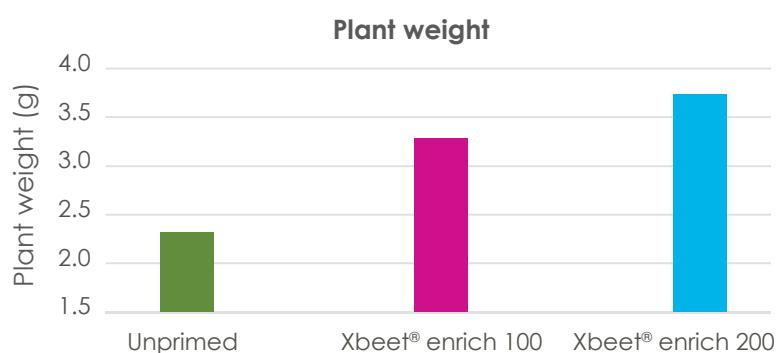
The biostimulant has been trialled over 5 years in small plot trials. The biostimulant has demonstrated an average increase in adjusted yield of **1.3%** in comparison to the original Xbeet® plus technology.

Strip Trials

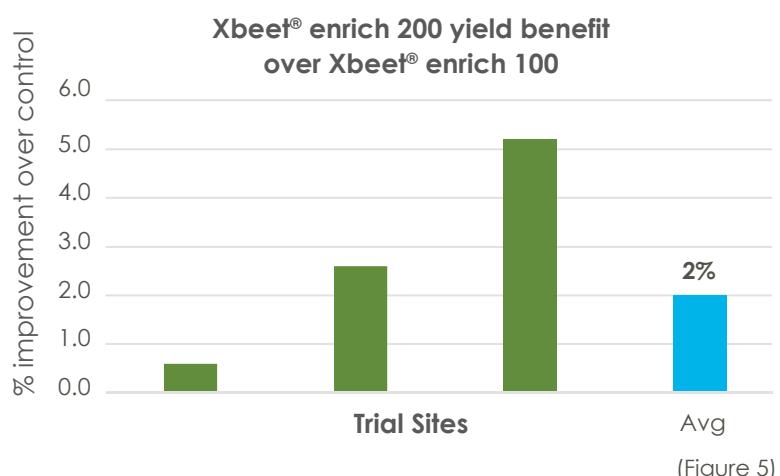
This year's strip trials demonstrated that Xbeet® enrich 200 achieved an average **2%** increase in yield (Figure 5).



(Figure 3)



(Figure 4)



(Figure 5)

About our Trials

There are several different types of trials that Germains commissions, each has a specific purpose:



Small Plot Trials

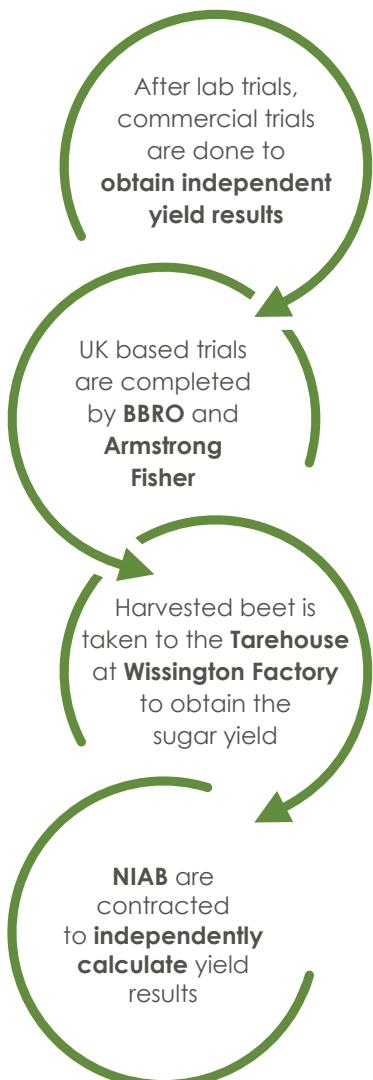
- Gather robust data to prove benefits
- 3-4 varieties , 3-6 sites, 6 replications, plot size – 3 rows 7-10m long
 - Trial design: Small randomised blocks



Replicated Strip Trials

- Prove benefits at field scale
- 1 variety, 3 sites, 6 replications, plot size – 6 rows 150-300m long
 - These trials demonstrate a yield benefit under conditions as close as possible to normal farming practice

Overall Process





Want to discover more about our Xbeet® enrich series?

-  Email us at UKSugarBeet@germains.com
-  Tweet us [@GermainsUKBeet](https://twitter.com/GermainsUKBeet)
-  Visit our website at germains.com


Xbeet®
enrich **100**


Xbeet®
enrich **200**



LINKING ENVIRONMENT AND FARMING

Xbeet® is a registered trademark of Germains Seed Technology


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