BlueN[™] - Nutrient Efficiency **Stimulant in Maize**

BlueN[™] provides a crop with an additional, unique way to capture nitrogen throughout the season, helping plants reach their yield potential.

Why use BlueN nutrient efficiency biostimulant?

- Maximises crop potential through optimised nitrogen management.
- BlueN enhances plant growth by improving the nitrogen availability in the plant throughout the growing season, especially during critical growing periods.
- BlueN meets changing market expectations by providing a sustainable source of nitrogen, which is unaffected by unfavourable weather conditions, leaching or volatilisation

What is BlueN?

BlueN is a novel nutrient efficiency biostimulant for use in a broad range of crops. BlueN contains Methylobacterium symbioticum, a bacterium found in nature that fixes atmospheric nitrogen for use by the plant. BlueN provides a sustainable, alternative source of nitrogen that reduces dependency of nitrogen uptake from the soil and ensures the plant has access to nitrogen all season long.

How does BlueN work?

- BlueN enters the plant through the stomata from where it can colonise the leaves and then quickly translocate to surrounding leaves, stems and roots.
- BlueN converts atmospheric N₂ into ammonium which can be used by the plant.
- · Plants generate methanol during normal growth which is used as a food source by BlueN ensuring reliable colonisation.
- Once BlueN has colonised the plant, on average it can deliver the equivalent of ~2 - 3kg/ha of applied nitrogen to the crop per week.



Apply when most stomata are open, ie., morning, late afternoon and evening.

Try to apply when day temperatures begin to reach at least 10°C up to 25°C (maximum 30°C) and night temperatures over 5°C (refer to Arable App for specific timing information). Use water with a pH between 5 and 8.



effective colonisation of

Methylobacterium symbioticum

Pack Size

Rainfastness

Application Timing



Always read the label and product information before use. For warning phrases and symbols refer to label. BlueN[™] contains *Methylobacterium symbioticum*.

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Supplies nitrogen throughout the

CORTEVA[®] biologicals



BlueN meta-analysis on grain maize

European studies including UK, 2022/23



- In \approx 80% of cases BlueN brings a yield increase over untreated with an average yield benefit +0.6T/ha = +£120/ha.
- Across all 69 trials the average yield benefit is $+0.4T/ha = \pm 50/ha$ return on investment.

Maize yield - replicated plot trial Warwickshire, 2024



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growing together