

BlueN™ Nutrient Efficiency Biostimulant in Legumes



BlueN™ provides your legume crop with a 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, especially during critical growing periods.
- BlueN enhances plant growth by improving the nitrogen availability in the plant throughout the growing season.
- BlueN meets changing market expectations by providing a sustainable, supplemental source of nitrogen, which is not affected by unfavourable weather conditions, leaching or volatilisation.

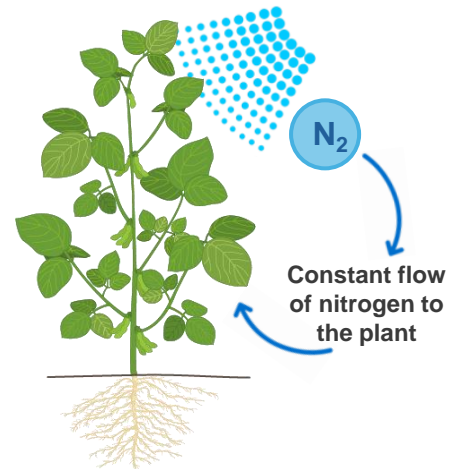
What is BlueN?

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

How BlueN Works

- BlueN enters the plant through the stomata from where it can colonise the leaves and then quickly redistributes to surrounding leaves, stems and roots.
- BlueN converts atmospheric N₂ into ammonium which can be used by the plant.
- Once BlueN has colonised the plant, on average it can deliver the equivalent of ~2-3 kg/ha of supplemental nitrogen to the crop per week.

Plants generate methanol during normal growth which is used as a food source by BlueN ensuring reliable colonisation.



Supplies nitrogen throughout the crop's life in an effective and controlled way.

Application Information

Pack Size	3 kg
Recommended Rate	333 g/ha
Rainfastness	1 hour
Number of Applications	1 application per crop
Application Timing	Apply between 4 and 8-leaf stage (GS14-18) Optimum timing GS 18
Application conditions – Key for effective colonisation of <i>Methylobacterium symbioticum</i>	<ul style="list-style-type: none"> • Apply to actively growing plants unaffected by stress. • Apply when most stomata are open, i.e., morning, late afternoon or 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.

BlueN is verified for use in organic systems, for more information contact the Corteva Hotline.



Visit us at corteva.co.uk

Always read the label and product information before use. For warning phrases and symbols refer to label. For further information, visit www.corteva.co.uk.

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BlueN contains *Methylobacterium symbioticum*. All manufacturers' tradenames and trademarks are duly acknowledged. Hotline: 0800 689 8899. E-mail: ukhotline@corteva.com

March 2025 – this version supersedes all previous editions

Winter beans trial, 2023

Leaf tissue analysis

Element	Untreated	BlueN
N	4.42%	4.77%
P	0.453%	0.537%
K	1.18%	1.49%
S	0.15%	0.18%
Mg	0.128%	0.138%
Copper	12.3 mg/kg	14.5 mg/kg
Zn	33.1 mg/kg	42.5 mg/kg
Mn	10.8 mg/kg	12.9 mg/kg

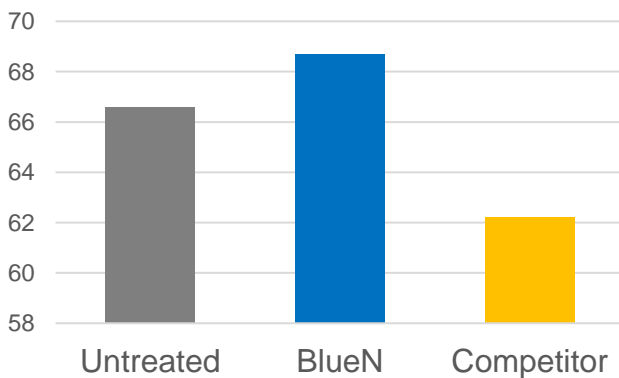


In this winter beans split field trial from 2023, BlueN increased yield by 33% compared to the untreated

- Untreated yield – 3.91 t/ha vs. BlueN yield 5.19 t/ha.
- Leaf tissue analysis from the trial also showed nutritional increases.

Winter beans trial, 2024

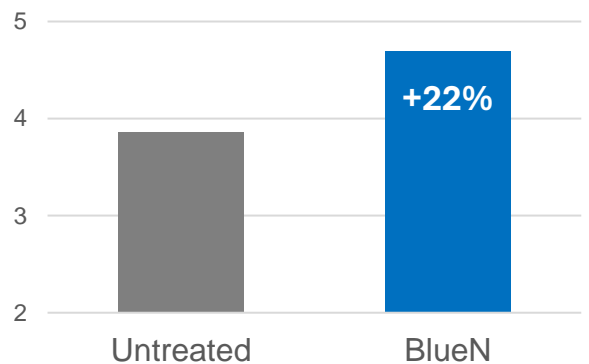
Number of nodules per plant



	Leaf Tissue N
Untreated	4.6%
BlueN	4.87%
Competitor	4.76%

Combining peas trials, 2024

Yield T/Ha
Mean of 2 trials, 2024



Field trials carried out in 2024 showed a mean yield increase from 2 trial sites of 0.83T/ha (22%) compared to untreated.