

# BlueN™ Nutrient Efficiency Biostimulant in Potatoes



BlueN™ provides a potato 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.
- BlueN enhances plant growth by improving the nitrogen availability in the plant throughout the crop's life in an effective and controlled way.
- Increases marketable yield (quantity and size) by impacting haulm growth and development.
- Has no impact on fry colour or impact on determinate vs indeterminate varieties.
- In trials, meta data analysis from UK trials in 2023/24 shows on average a 4t/ha yield benefit.
- For best results apply on top of your conventional fertiliser programme.
- BlueN is compatible with many potato blight fungicides, including Option and Zorvec Entecta, for more information on tank mix partners follow the link: <https://www.corteva.co.uk/tools-and-advice/tank-mix.html>.
- BlueN meets changing market expectations by providing a sustainable source of nitrogen.

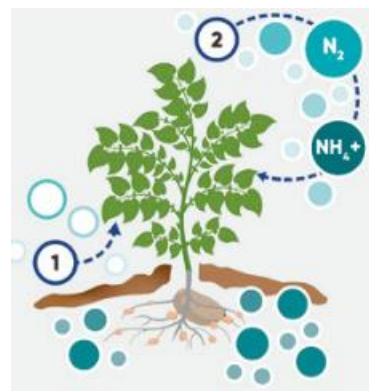
## What is BlueN?

BlueN is a novel nutrient efficiency biostimulant for use in a broad range of crops including potatoes. BlueN contains *Methylobacterium symbioticum*, a bacteria 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 BlueN Works

1. BlueN enters the potato plant through the stomata from where it can colonise the plant.
2. BlueN converts atmospheric N<sub>2</sub> into ammonium which can be used by the plant.
3. Once BlueN has colonised the plant, on average it can deliver the equivalent of ~3kg/ha of applied 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 cycle in an effective and controlled way**

## Application Information

<b>Pack Size</b>	3kg
<b>Recommended Rate</b>	333g/ha
<b>Rainfastness</b>	1 hour (leave 24hrs before irrigating as a precaution)
<b>Number of Applications</b>	1 application per crop
<b>Application Timing</b>	GS25-60 Optimum timing GS25-33 (before plants meet in the row, immediately before rapid canopy expansion)
<b>Application conditions</b> – Key for effective colonisation of <i>Methylobacterium symbioticum</i>	<ul style="list-style-type: none"><li>• Apply to actively growing plants unaffected by stress.</li><li>• Apply when the majority of stomata are open, i.e. morning, later afternoon or evening.</li><li>• 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).</li><li>• Use water with a pH between 5 and 8.</li></ul>

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



Visit us at [corteva.co.uk](https://www.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](https://www.corteva.co.uk).  
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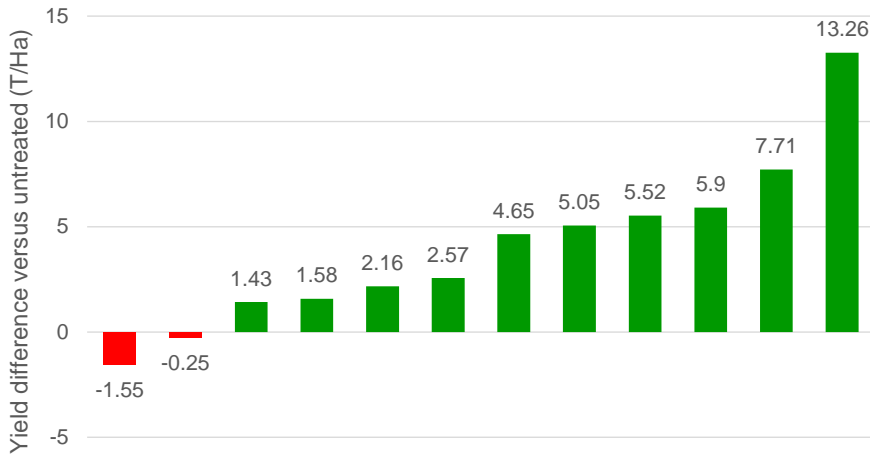
BlueN contains *Methylobacterium symbioticum*.  
All manufacturers' trademarks and tradenames are duly acknowledged.  
Hotline: 0800 689 8899. E-mail: [ukhotline@corteva.com](mailto:ukhotline@corteva.com).

**February 2025 – this version supersedes all previous editions**

## BlueN performance on potatoes

12 UK sites, 2023/24

Marketable yield:  
BlueN vs. Untreated



### Margin Over Input Cost

Across all trials:  
BlueN investment: £30/ha  
Average yield benefit:  
+4.00T/Ha

**+£970/ha\***

\*Potatoes £250/T

- Across all UK trials from 2023/24 seasons, BlueN returned an average marketable yield benefit over untreated of 4.00T/Ha.
- For all trials, the return on investment is £970/ha.

## No effect on fry colour

Untreated



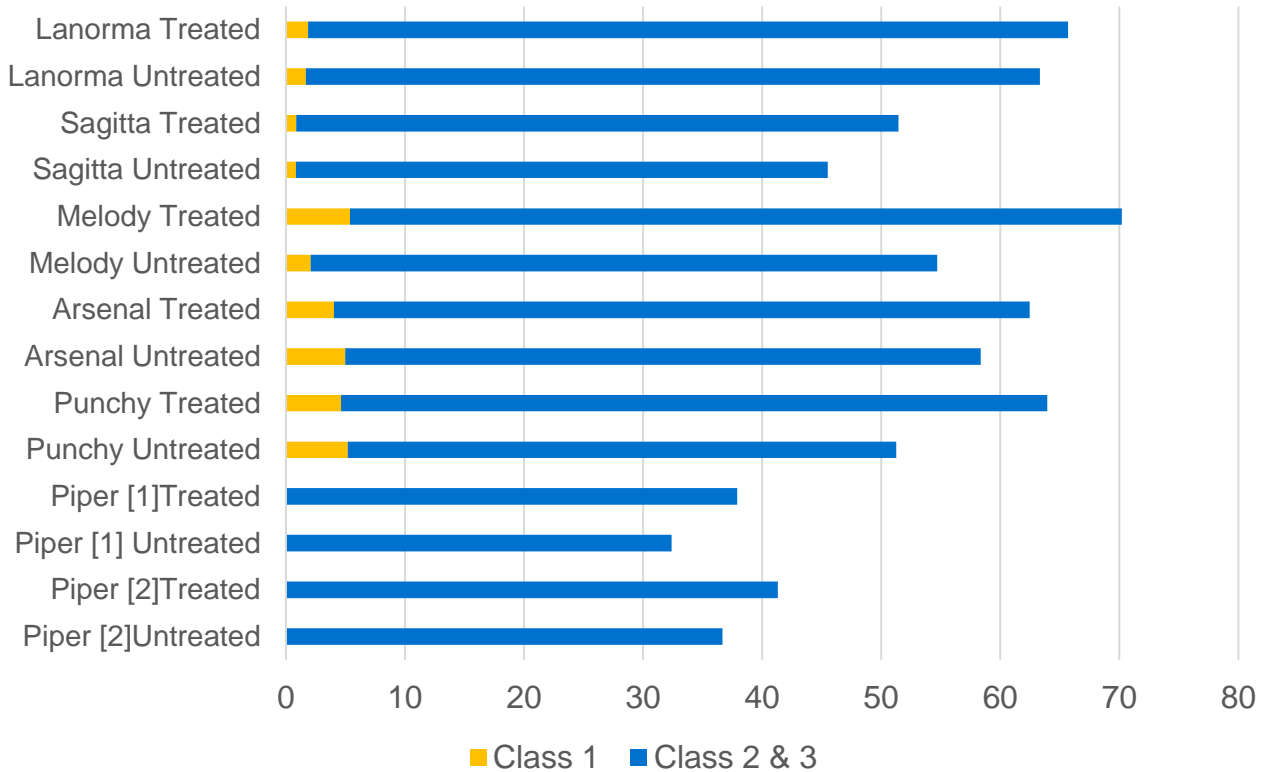
BlueN



Variety: Punchy  
Grown for processing  
(crisps)  
Location: Doncaster

## Impact on tuber bulking across varieties

Yield (T/Ha)



Arsenal treated



Punchy treated

Results taken from a range of sites & application timings showing no impact on the number of Class 1 small tubers.