Cereals

biologicals

Utrisha® N

NUTRIENT EFFICIENCY BIOSTIMULANT

Utrisha® N provides a crop with a unique way to capture nitrogen throughout the season, helping plants reach their yield potential.

Why use Utrisha N nutrient efficiency biostimulant?

- Maximises crop potential through optimised nitrogen management.
- Utrisha N enhances plant growth by improving the nitrogen availability in the plant throughout the growing season.
- Utrisha N meets changing market expectations by providing a sustainable source of nitrogen.

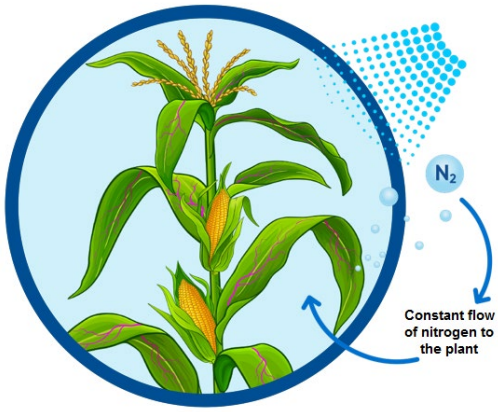
What is Utrisha N?

Utrisha N is a novel nutrient efficiency biostimulant for use in a broad range of crops. Utrisha N contains *Methylobacterium symbioticum*, a bacteria found in nature that fixes atmospheric nitrogen for use by the plant. Utrisha N 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 Utrisha N Works

- Utrisha N enters the plant through the stomata from where it can colonise the plant.
- Utrisha N converts atmospheric N_2 into ammonium which can be used by the plant.
- Once Utrisha N has colonised the plant, on average it can deliver the equivalent of 30kg/ha of applied nitrogen to the crop.

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



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

APPLICATION INFORMATION	
PACK SIZE	3kg
RECOMMENDED RATE	333g/ha
RAINFAST	1 hour
NUMBER OF APPLICATIONS	1 application per crop
APPLICATION TIMING	Winter cereals BBCH 25-61 (optimum timing is BBCH 25-32)* Spring cereals BBCH 25-32
APPLICATION CONDITIONS - KEY FOR EFFECTIVE COLONISATION OF *METHYLOBACTERIUM SYMBIOTICUM*	• Apply to actively growing plants unaffected by stress. • Apply when the majority of stomata are open • Try to apply when day temperatures begin to reach at least 10°C up to 25°C (maximum 30°C) • Use water with a pH between 5 and 8.

* - Please consult Corteva Agriscience for more information.

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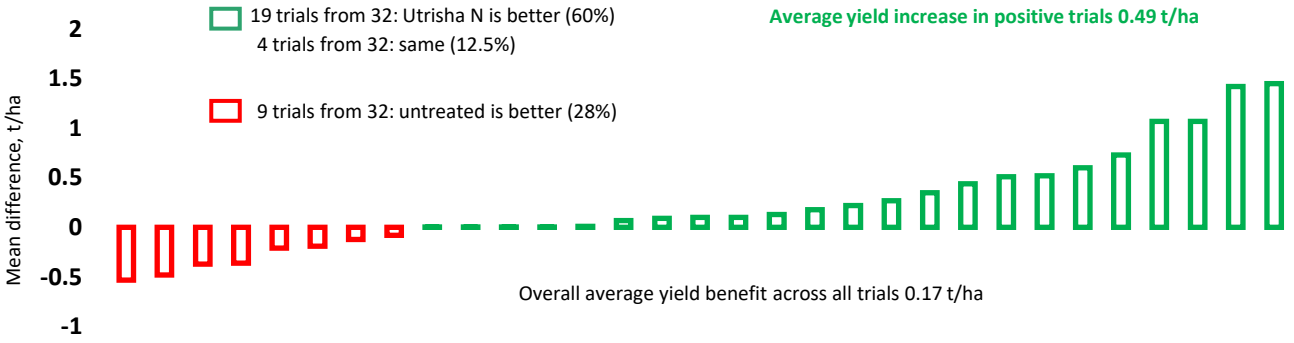
UK meta-analysis in winter wheat, 2023 On top strategy (applying Utrisha N on top of planned fertiliser programme).

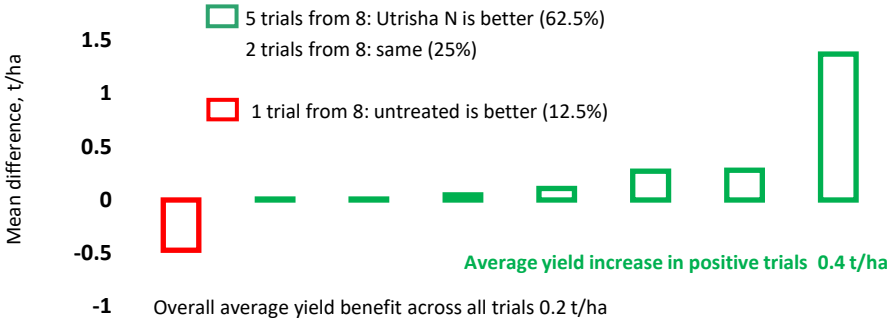


On top strategy (Utrisha N plus normal fertiliser programme):
- For all fertiliser programmes.
- Utrisha N investment: £30/ha
- Yield benefit: +0.49 t/ha = +£117.6/ha*

*Winter wheat £240/t

- In 60% of trials, the yield increase of treated vs. untreated was over +0.49 t/ha
- Across all the trials an average yield benefit was +0.17 t/ha

UK meta-analysis in winter wheat, 2023 – Replacement strategy (replace 30kg/ha of Nitrogen with Utrisha N in a planned fertiliser programme).

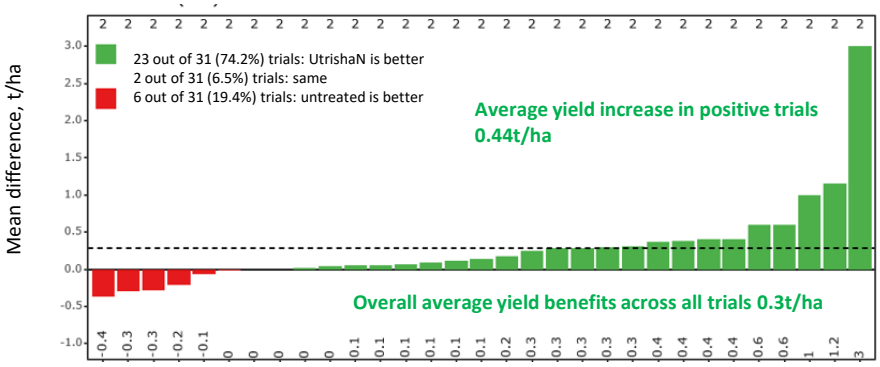


Replacement strategy (Utrisha N replacing 30kg/ha of nitrogen in a normal fertiliser programme):
- Utrisha N investment: £30/ha
- Yield benefit: +0.4 t/ha = +£96/ha*

*Winter wheat £240/t

- In 62% of trials, the yield increase of treated vs. untreated was over +0.4 t/ha
- Across all the trials an average yield benefit was +0.2 t/ha

Meta-analysis in winter barley, 2023 On top strategy (applying Utrisha N on top of planned fertiliser programme).



On top strategy:
- UtrishaN investment: £30/ha
- Yield benefit: +0.44 T/ha
- = + £63.8 ha*

*Barley £145/t

- The best strategy is to use UtrishaN on top of existing fertiliser programmes.
- In 74% of cases this strategy brings a yield increase over the untreated on average +0.44 T/ha
- Across all the trials an average yield benefit is +0.3 T/ha

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