

Pump up your crops



Vixeran[®]

VIXERAN[®] is a proven bacteria-based biofertiliser that allows your crop to fix nitrogen directly from the atmosphere. This improves nitrogen use efficiency on your farm – a benefit to your crop and the environment.

Fill the gap between the crop's nitrogen supply and demand

There are many situations where it is not possible to meet the nitrogen demand of the plant. Much of the nitrogen added through fertiliser application for example, can be lost to the environment through volatilisation or leaching. Applied in this peak demand stage, VIXERAN[®] provides a sustainable and reliable source of nitrogen to the crop.

What is VIXERAN[®]?

VIXERAN[®] is based on a bacterium called *Azotobacter salinestris* and is applied as a foliar treatment. Once added, it colonises the leaves and the roots, supporting the crops throughout the entire season.

How does it work?



Inside and Outside

- **Free-living nitrogen-fixing bacteria**
(*Azotobacter salinestris* strain CECT 9690)
- **Lives within the plant or in the soil**
Constantly fixing nitrogen from the atmosphere benefitting plant & rhizosphere



Up and Down

- **Colonises the foliage**
- **Colonises the root system**
- Colonising the whole plant gives more consistent benefits



Protects and Surrounds

- **Forms cysts to survive hostile conditions**
Allows a wider range of compatibility with crop protection products
- **Produces a protective biofilm around the whole plant**
Helping to maximise the colonisation process, protecting both plant and bacteria from harsh environmental pressures and harmful phytopathogens



Add a breath of fresh air to your fertiliser strategy

learn more at www.syngenta.ie

syngenta[®]
Biologicals

Vixeran® ON CEREALS

- Nitrogen is a KEY macro nutrient needed for growth & development of the crop, important for chlorophyll production & protein synthesis
- 70% of the total N requirement for cereals is needed between GS21-39

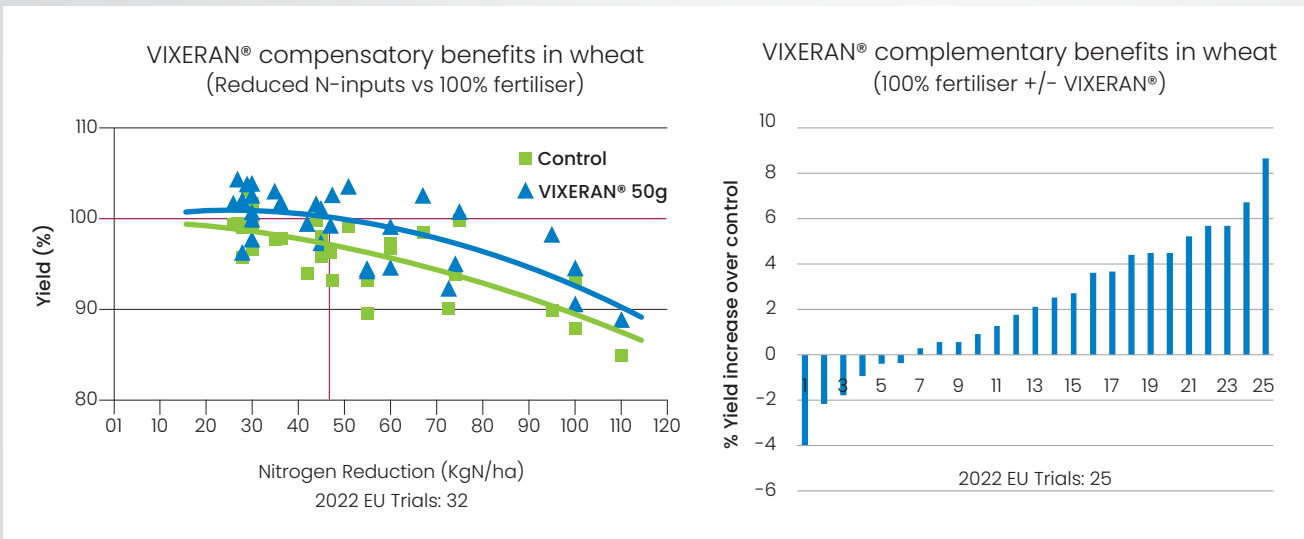
- Conventional cereals will respond to an increase in available soil nitrogen
This is often done through the addition of nitrogen fertilisers
- Applying no more than is required, helps to:
 - Protect the environment
 - Reduce the farm carbon footprint
 - Improves MOI

This is where VIXERAN® can help

VIXERAN® helps to optimise nitrogen fertiliser management in cereals in 2 ways:

- **COMPLEMENT** Yield increase in standard nitrogen fertiliser regime
- **COMPENSATE** Potential yield compensation in nitrogen reduction regime

Trials have shown VIXERAN® can replace up to 30 kgN/ha*



Strain

Azotobacter salinestris Strain CECT9690

FORMULATION	Solid, powder
DOSE	50 g/ha
TIME OF APPLICATION	Apply during periods of active crop growth Cereals GS21-31
NITROGEN STRATEGY	Complement – Can be used with all cereal crops* Compensate – Can be used with all feed quality cereal crops*
APPLICATION	Foliar
ACTION	Biological N-fixing (leaves/roots/rhizosphere)
SHELF-LIFE	24 months (at room temperature); longer in cold storage

*Consult a Qualified Adviser for advice and guidance on nitrogen applications.

Trials have shown VIXERAN® can replace up to 30 kgN/ha based on a reduction from the standard 100% nitrogen recommendation.

VIXERAN® is a Registered Trademark of a Syngenta Group Company.
Always read the label and product information before use.

Syngenta Irl Ltd,
Cleaboy Business Park,
Old Kilmeaden Road,
Waterford
www.syngenta.ie

syngenta
Biologicals