



New ways of thinking

Bioscience products

L-CBF BOOST

growing through **innovation**

A close-up photograph of a young green seedling with two leaves emerging from dark, rich soil. The seedling is the central focus, set against a blurred background of soil. The image is framed by a large, semi-transparent teal circle on the right side of the page.

Inspiring
change...

Feed your soil microbes

A liquid carbon additive that acts as a food source for soil microbes, increasing nutrient availability and improving the efficiency of applied fertilisers.

How it works

L-CBF BOOST[™] is formulated using filtered cane molasses and contains a range of nutrients including nitrogen, potash and sulphur. It works by acting as a food source for soil microbes and fungi, which enables them to increase in population. With greater numbers, these then improve the availability of key nutrients; boosting root mass, crop yield and overall soil and plant health.

Soil microbes need to be fed to survive and multiply, but over the years numbers have declined due to excessive tillage and pesticide applications. Because of this, crops have required even greater levels of artificial fertilisers and chemicals, which has further damaged these vital microbes.

By changing perspective on soil health and focussing on feeding soil microbes, we can increase their numbers and therefore improve the productivity of applied fertilisers. This is particularly useful for nutrient-hungry crops such as maize, beet and potatoes, as well as cereals and oilseed rape.

With soil health firmly on the political agenda, building long-term soil fertility and improved nutrient cycling will help growers to replenish their soils' natural biology.



Benefits

L-CBF BOOST offers the following benefits:

- **Improves nutrient availability and cycling**
- **Increases root mass**
- **Supports long-term organic matter building including cover crop conversion**
- **Low C:N ratio to help balance soils**
- **Improves applied fertiliser efficiency**

*A food source for
soil microbes that
**increases nutrient
availability***





Results

Increased root mass in maize treated with L-CBF BOOST, as well as length of roots and exploration potential is shown in the images below.

Maize images captured from a trial at Knutsford, Cheshire.



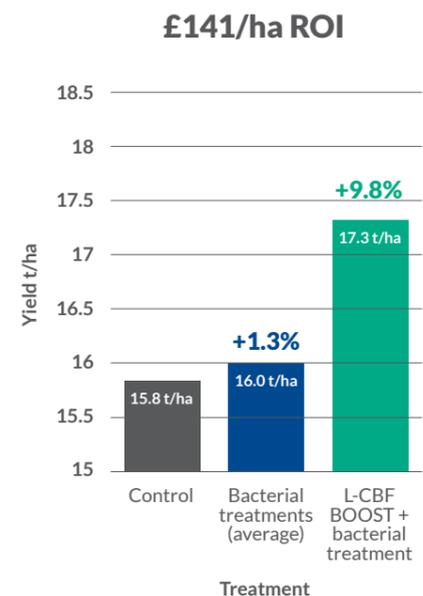
What this means for you

When L-CBF BOOST is applied alongside a bacterial treatment on soil with low organic matter content, a yield increase of 9.8% can be achieved, equating to £141/ha ROI.

This is because L-CBF BOOST provides the vital food that the applied bacteria require.

The trial was conducted on maize in Broxton, Norfolk in 2019.

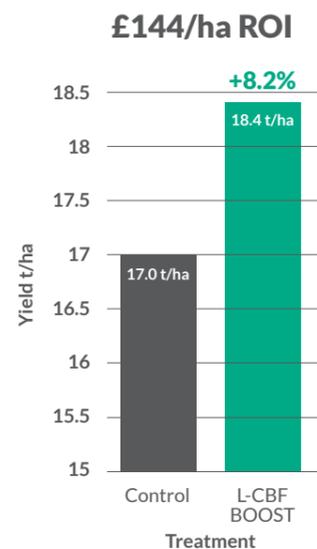
Yield response in maize, low OM soils



In comparison, when L-CBF BOOST is applied to soils with existing high organic matter content, used alone it can achieve 8.2% yield increase, equating to £144/ha ROI. Here, L-CBF Boost is improving the activity of existing soil microbes.

The trial was conducted on maize in Lackham, Wiltshire in 2019.

Yield response in maize, high OM soils



Application

Crop	Rate	Application
Autumn and spring sown combinables	10-15l/ha Followed by: 5-10l/ha and/or 3-5l/ha with each fungicide application	At planting or with early herbicides With spring liquid nitrogen With each fungicide application
Autumn and spring sown grass	20l/ha Followed by: 20l/ha	At planting In spring after each cut
Maize	20l/ha at planting Followed by: 20l/ha	At planting At emergence
Potatoes	40l/ha Followed by: 10l/ha	At planting or pre-emergence At tuber initiation
Sugar and fodder beet	20l/ha	At planting

Other features

- High levels of available carbon
- Tank mixable
- Various pack sizes including bulk



Chris Martin, Head of Soils at Agrovista said: “By mimicking the vital work of a crop’s root exudates, which feed rhizosphere microbes and fungi by naturally releasing carbon compounds, we can tap into a broad range of crop benefits. As this product has been independently trialled globally for more than 10 years with great results, we are delighted to be able to offer it to our customers.”



Contact your local Agrovista agronomist today, to discuss our Innovation Range and how these exciting new products can support you.



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