

High Investments – Uncertain Returns?



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Dear Sir or Madam,

Every year, you invest a great deal of time, work and effort in soil cultivation, sowing, fertilization and crop protection. At the same time, extreme weather events such as drought, heavy rainfall, hail and storms are increasing and are increasingly affecting crop yields and quality.

Long-standing users of **bio-algeen S92** report stable yields even under increasingly extreme and variable weather conditions. Trials conducted by Martin Luther University Halle-Wittenberg, Feldtest GmbH Roßleben, UAS Jena and Kürzinger agro nord GmbH in Groß Lüsewitz led to a more precise definition of the application conditions and demonstrated statistically significant yield advantages in the crops investigated.

The following documented trial results demonstrate the product's effectiveness under practical conditions:

DOCUMENTED TRIAL RESULTS



Winter wheat (2019/2020 trial year):

Yield increase: **9.9 dt/ha**; crude protein content increased by 0.1% (101.6 dt/ha vs. 91.7 dt/ha)



Winter barley (2024/2025 trial year):

Yield increase: **10 dt/ha** (116.7 dt/ha vs. 106.7 dt/ha)



Potatoes (2023 trial, Groß Lüsewitz):

Trial yield: 643.9 dt/ha; control: 407.7 dt/ha. Over the period from 2017 to 2025, this corresponds to an average yield increase of 17%.

These results show consistent yield benefits across different crops and locations and demonstrate the stabilization of yield and quality when the product is applied correctly.

Shortly after the application of **bio-algeen S92**, plants show increased fine-root formation, particularly in the fine-root zone. Fine roots are crucial for water and nutrient uptake; their proliferation improves the utilization of available capillary water and increases resistance to drought stress.

SOIL MECHANISM

The polyuronic acids contained in **bio-algeen S92** promote the formation of a stable crumb structure. This supports humus formation, improves nutrient retention and increases the water-holding capacity of the soil. The principles of **regenerative agriculture** are significantly supported through the use of our product.

PHYTOSANITARY EFFECT

Studies in sugar beet documented a significantly increased parasitization of sugar beet cyst nematodes, indicating an improved **phytosanitary effect of the product**. A significant increase in saprobiontic nematodes was observed as the underlying mechanism. Saprobiontic nematodes are free-living roundworms that decompose organic residues, consume bacteria and fungi, and return important nutrients such as nitrogen to the soil through their digestion. A corresponding relationship was already confirmed in 1993 by the Institute of Phytomedicine at the University of Stuttgart-Hohenheim.

PRODUCT AND APPLICATION

Our biological seed treatment **bio-algeen BZ 5** and our slurry treatment product **bio-algeen G40** have also proven themselves in agricultural practice and have contributed to using farm inputs more efficiently and optimizing work processes.



Find the appropriate contact person for your region on our website.

We will be happy to provide you with individual advice for your farm.

Yours sincerely,

Bernd Schulze

Peter Dittrich

ALTERNATIVE APPLICATION RECOMMENDATIONS

Winter wheat: 1 x 4 l/ha bio-algeen S92 at EC stage 12–13

Winter barley: 1 x 4 l/ha at the beginning of vegetation

Winter rape:

Autumn: 1 x 3 l/ha from the seed leaves

Spring: 1 x 2 l/ha at the beginning of vegetation