

Maize Field Trial

Fuchshain Agricultural Cooperative

This trial involved tests of maize on a field with an area of 30 ha. The field was divided into 2 x 15 ha, of which one was treated with BioAktiv Professional Plants (F1b) while the other half remained untreated (F1a).

Area F1b was treated at the 3 leaf stage with 1 kg/ha BioAktiv Professional Plants.

The focus of this trial was not the yield increase or quality but instead exclusively addressed the parameters of humus and microbial biomass.

A visual inspection of the plant roots and plant growth was also documented.



Left: BioAktiv

Right: Control

Left: BioAktiv

Right: Control

Maize plants that were treated with BioAktiv developed more robust and longer embryonic root radicles with significantly more lateral roots. The depth of root growth is a key factor for water supply.

Longitudinal growth of treated maize plants was higher than untreated maize plants.

Test report

Contractor BioAktiv-Pulver Produktions- und Vertriebs GmbH
 Bockwitzer Str. 80
 D-06712 Zeitz OT Würchwitz

Customer no.: 773
 Test report no.: 16 1035 705
 Job/Date: 04 July 2016
 Sample receipt date: 04 July 2016
 Processing period: 04 July to 01 August 2016
 Report date: 01 August 2016
 BioChem Lab no.: 16/11523, 11524
 Sample type: Soil

Test results:

Sample no.	Lab no. 16/	Humus	Biomass mg C/100g DM
F1a	11523	3.0	35.75
F1b	11524	3.4	48.77

Test methods applied:

Humus: DIN ISO 10694,

Microbial biomass: DIN EN ISO 14240-1:2011-09

DM: Dry mass

The test results apply solely to the sample(s) tested.

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[signature]

U. Laue

Deputy Dept. Head for Soils/Chemistry

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Page 1 of 1

F1a: Field with no BioAktiv (control area) F1b: Field with BioAktiv Professional Plants

Humus content and microbial biomass were significantly higher compared to the control area. Microbial biomass is significantly correlated with humus content and serves as a measure of bioactivity in the soil.

Application of BioAktiv Professional Plants significantly accelerated proliferation and bioactivity of soil organisms, which in part can explain the more robust root and plant growth.