BIO-ORGANIC CATALYST
THE POWER IN NATURE®

CASE STUDY
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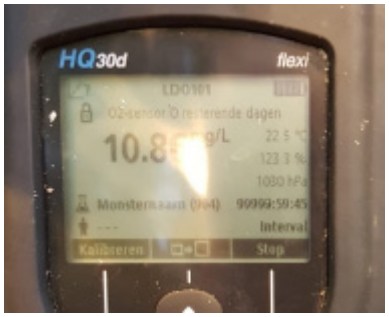
IMPROVED DISSOLVED OXYGEN AND ROOT GROWTH FROM PHYTO-C_3™ TREATMENT IN HYDROPONIC SYSTEM GROWING TOMATOES

Phyto-C_3™ was used on a 4 hectare hydroponic farm in the netherlands. DO oxygen levels were tested at the resevoir tank where the Phyto-C_3™ was injected. They showed a dramatic rise in oxygen levels over the course of approximately 30 minutes as shown in the first 3 meter readings. Elevated oxygen levels were sustained to the end of the drip irrigation system as shown in the fourth meter reading. These levels of dissolved oxygen were sustained over time by continued application of Phyto-C_3™. After 3 months of growth, cloned tomatoes showed significantly improved yield and root growth in sections treated with Phyto-C_3™ (bottom right) than in sections left untreated.

Before Phyto-C_3™ injection
Time 9:24am
Dissolved Oxygen 3.4 mg/l
Oxygen% 36.4%
Temperature 18.5 C

Immediatley After Phyto-C_3™ injection
Time 9:57 am
Dissolved Oxygen 3.92 mg/l
Oxygen% 41.8%
Temperature 18.9 C

10 minutes after Phyto-C_3™ injection
Time 10:06 am
Dissolved Oxygen 11.22 mg/l
Oxygen % 125.9%
Temperature 21.5 C



Sustained reading at end of drip line
Dissolved Oxygen 10.8 mg/l
Oxygen % 123.3%
Temperature 21.5 C

Root Systems of Tomato plants in hydroponic system without Phyto-C_3™ treatment.

3 months of growth from clones.

Root Systems of Tomato plants in hydroponic system with Phyto-C_3™ treatment.

3 months growth from clones.