NGB

NEXT GENERATION BIOTECH

NG Biyoteknoloji Ltd. Şti.

RhizoFill: Plant Nutrition

- ***Bacillus subtilis*** **NG134**
- ***Bacillus megaterium*** **NG57**
- ***Pseudomonas fluorescens*** **NG28**

- RhizoFill improves canopy and roots providing a significant increase in yield by producing molecules which mimics auxin, cytokinin and gibberellin hormones and organic acids such as acetoin and phenyl ethylene naturally in the rhizosphere.
- RhizoFill enhances development of hairy-roots and as a result increases the availability and bio-efficacy of fertilizers, thus reduces the use of chemical fertilizers.
- Following the application of RhizoFill, plants become more tolerant to the abiotic stress factors such as drought, salinity and heat.
- RhizoFill suppresses pathogenic fungal growth by producing siderephores that sequesters iron and make it unavailable for fungi.

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- RhizoFill improves cell division thus increases shoot growth by triggering nucleic acid and protein synthesis.
- Microorganisms in RhizoFill colonizes the rhizosphere and triggers induced systemic resistance (ISR) and competes with other microorganism for nutrients thus enhances plants immune system and reduces the risk of pathogenic attack.
- RhizoFill helps to maintain pH balance in the rhizospere and improve the absorption of trace elements by roots.
- B. megaterium in RhizoFill dissolves phosphate salt and increases their availability for plants thus enhances seed and fruit development.
- The high concentration of microorganisms in RhizoFill secures a microbe friendly environment for beneficial microorganisms in the rhizosphere.

RhizoFill: Plant Nutrition

RhizoFill application Day 60
Nodes 8-9, (500 cc/da - 3 aplications)

Control
Day 60, Node 6

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RhizoFill application
Day 80, Nodes 8-9
(500 cc/da - 4 applications)

Control
Day 80, Nodes 6-7

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RhizoFill application Day 130
Nodes 8-9, (500 cc/da - 5 applications)

Control
Day 130, Nodes 6-7

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Zucchini Seedlings (KumlucaProvince, Antalya, Turkey)
Dose: 1 liter/da, single dose; Duration: 4 days after application

Control field

RhizoFill application

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Wheat (Biga Province, Çanakkale, Turkey)
Dose: 100 mL/da, single dose; Duration: 7 days after application.

Trial field

Control field

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