Microbiome Analysis Report

#1 (100g)

DEW000

Microbial Population

*All the information shown in this microbial report is based on the detected presence of **192** different species.*

FUNGAL
PHYLUM DISTRIBUTION

- Basidiomycota **100%**
- Ascomycota **< 1%**

BACTERIAL
PHYLUM DISTRIBUTION

- Firmicutes **84%**
- Proteobacteria **11%**
- Actinobacteriota **4%**
- Chloroflexi **< 1%**
- Myxococcota **< 1%**

Conclusions

STRENGTHS

- Carbon xation **18%**
- Inorganic nitrogen release **16%**

Biosustainability

BIODIVERSITY

0.29

0 — *Richness, evenness and distinctness of microbial species* — 10

FUNCTIONALITY

1.87

0 — *Capability of soil microbial communities to perform multiple functions* — 10

Plant health improvement

Biocontrol agents, plant growth promoting organisms

BIOCONTROL

Microbial species grouped according to the type of pest they encounter, capable of preventing pathogenic species from taking hold or proliferation

Fungicide agents

NOT DETECTED

Bactericide agents

NOT DETECTED

Insecticide agents

NOT DETECTED

Nematicide agents

12%

HORMONE PRODUCTION

Microbial species grouped according to the type of phytohormone they generate

Auxin production (IAA)

CELL DIVISION | STEM ELONGATION

65%

Cytokinin production (CK)

CELL PROLIFERATION | CELL DIFFERENTIATION

80%

Gibberellin production (GA)

STEM ELONGATION | GERMINATION | FLOWERING

71%

STRESS ADAPTATION

Microbial species grouped according to their relationship with the metabolisms linked to the capability to withstand stress conditions

Exopolysaccharide production

NUTRIENT TRAP | SALINITY PROTECT. | DROUGHT PROTECT.

9%

ACC deaminase (ACC-d)

PATHOGEN PROTECT. | SALINITY PROTECT. | DROUGHT PROTECT.

81%

Heavy metal resistance

BIOREMEDIATION | DETOXIFICATION | ALLEVIATE HEAVY METAL STRESS

15%

Salicylic acid (SA)

DROUGHT PROTECT. | SALINITY PROTECT. | ALLEVIATE HEAVY METAL STRESS

NOT DETECTED

Salt tolerance

SALINITY PROTECT. | ROOT GROWTH PROMOTION

78%

Abscisic acid (ABA)

GROWTH REGULATION | PLANT RESISTANCE | INCREASE YIELDS

NOT DETECTED

Siderophore production

IRON AVAILABILITY | BIOFERTILIZER

36%

Nutrition

Nutritional status based on the microbial mobilization of certain compounds

MAJOR COMPOUNDS

C Carbon

GAIN

Carbon fixation	18%

LOSS

Aerobic respiration	19%
Fermentation	88%
Methanogenesis	10%

INDIRECT BENEFITS

Organic matter release	65%

N Nitrogen

NUTRIENT SUPPLY

Inorganic nitrogen release	16%

NUTRIENT COMPETITION

Inorganic nitrogen consumption	14%

INDIRECT BENEFITS

Nitrogen cycle	52%

P Phosphorus

NUTRIENT SUPPLY

Inorganic P solubilization	2%

NUTRIENT COMPETITION

Inorganic P consumption	83%

INDIRECT BENEFITS

Organic P assimilation	100%

K Potassium

NUTRIENT SUPPLY

Potassium solubilization	2%

NUTRIENT COMPETITION

Potassium consumption	43%

MINOR COMPOUNDS

Fe Iron
Iron assimilation 22%

Zn Zinc
Zinc transport equilibrium 31%

Mn Manganese
Manganese transport equilibrium 89%

S Sulfur
Sulfur cycle equilibrium 74%

Ca Calcium
Calcium transport 18%

Cu Copper
Copper export 51%

Mg Magnesium
Magnesium transport 84%

Cl Chlorine
Chlorine transport 9%