

Compost

ORGANIC

SOLID

PARCEL

Compost SymSoil

VARIETY

-

DATE

17Oct2018

MICROBIAL POPULATION

All the information shown in this microbial report is based on the detected presence of **2003** different species

FUNGAL PHYLUM DISTRIBUTION

76.19% Zygomycota

17.94% Ascomycota

5.85% Basidiomycota



FUNGUS

BACTERIAL

BACTERIAL PHYLUM DISTRIBUTION

Chlorobi 52.15%

Crenarchaeota 16.92%

Bacteroidetes 4.44%

Chloroflexi 3.7%

Proteobacteria 3.55%

CONCLUSIONS

STRENGTHS

Inorganic Nitrogen Release 88.77%

Fermentation 88.60%

BIOSUSTAINABILITY

BIODIVERSITY

7.53

0 10

Richness and evenness of detected microbial community

FUNCTIONALITY

9.80

0 10

Capability of microbial communities to perform multiple functions

PLANT HEALTH IMPROVEMENT

Biocontrol agents, plant growth promoting organisms

BIOCONTROL AGENTS



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

Fungicide Agents

0.05%

Bactericide Agents

Not Detected

Insecticide Agents

0.05%

Nematicide Agents

Not Detected

HORMONE PRODUCERS



Microbial species grouped according to the type of phytohormone they generate.

Cytokinin Production

CELL PROLIFERATION

CELL DIFFERENTIATION

5.36%

Gibberellin Production

ELONGATION

GERMINATION

FLOWERING

4.11%

Auxin Production

CELL DIVISION

ELONGATION

12.26%

ADAPTATION TO STRESS CONDITIONS



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

Exopolysaccharide Production

NUTRIENT TRAP

SALINITY PROTECT.

1.54%

ACC Deaminase

PATHOGEN PROTECT.

SALINITY PROTECT.

6.96%

Heavy Metal Solubilization

BIOREMEDIATION

DETOXIFICATION

1.14%

Abscisic Acid

GROWTH REGULATION

PLANT RESISTANCE

0.07%

Salicylic Acid

ALLEVIATE WATER STRESS

ROOT GROWTH PROMOTION

0.04%

Salt Tolerance

ALLEVIATE WATER STRESS

ROOT GROWTH PROMOTION

5.10%

Siderophore Production

IRON NUTRITION

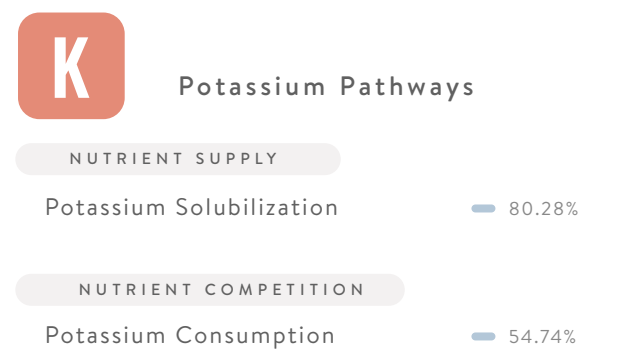
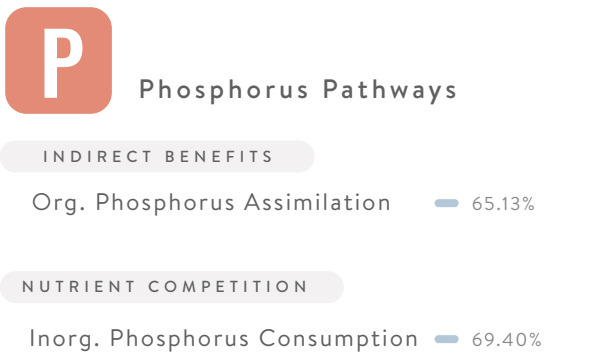
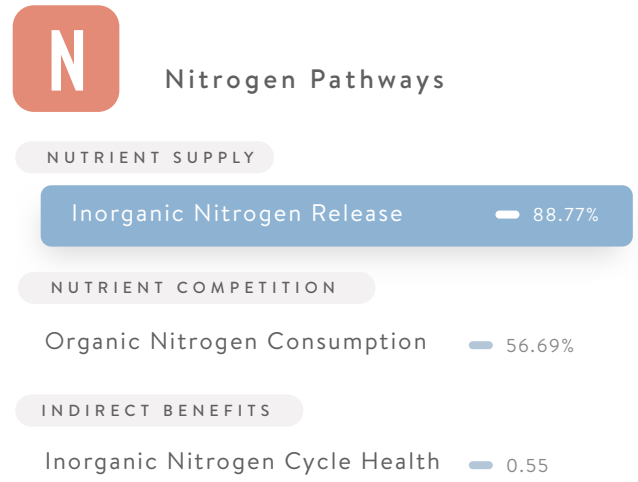
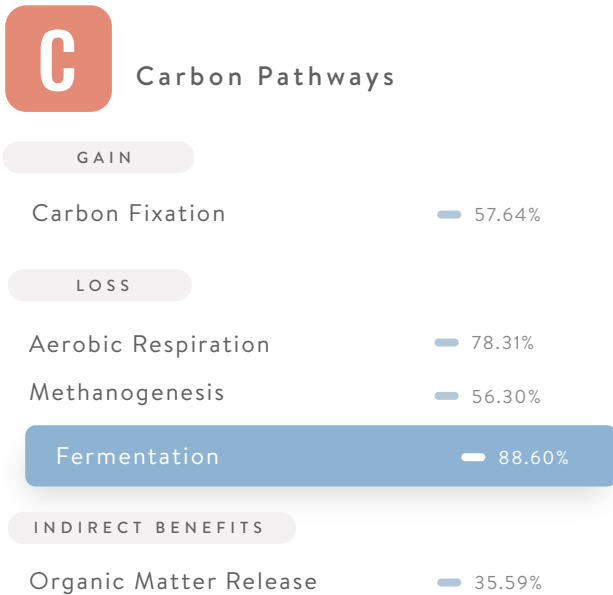
BIOFERTILIZER

44.46%

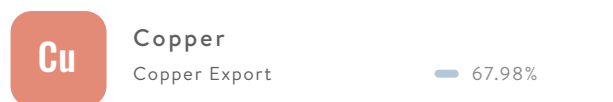
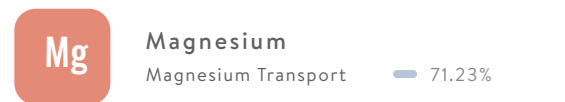
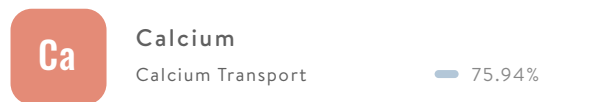
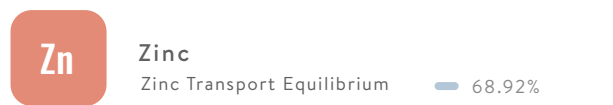
NUTRITION

Nutritional status based on the presence and mobilization of certain compounds

MAJOR COMPOUNDS



MINOR COMPOUNDS



APPENDIX

USDA HUMAN PATHOGENS



Compost Soil

List of Human Pathogens whose presence is forbidden by the USDA



Escherichia coli

— Not Detected



Salmonella sp

— Not Detected



Listeria sp

— Not Detected