

Microbiome Analysis Report



#CBW010

TM TEST



SOIL

CROP

Corn, Maize

VARIETY

Not defined


DATE

22-Apr-2022


All the information shown in this microbial report is based on the detection presence of **763** different species

1e+8 units/gr
Total Bacteria

1e+6 units/gr
Total Fungi



Only Ectomycorrhiza
Arbuscular-Ectomycorrhiza Ratio




1:71.36
Fungi-Bacterial Ratio

SUMMARY


Soil Quality

Soil Quality




High

Biodiversity




Low

Functionality



Medium


Resistance



Very low


Health

Health




Medium

Biocontrol




High

Hormone Pr...



Medium


Stress Adapt



Medium


Nutrition

C




High

N




Very low

P



Medium

K



Low

Distribution







Fungal Phylum distribution

- 78%** Ascomycota
- 16%** Mortierellomycota
- 5%** Basidiomycota

Bacterial Phylum distribution

- 37%** Proteobacteria
- 18%** Actinobacteriota
- 10%** Acidobacteriota

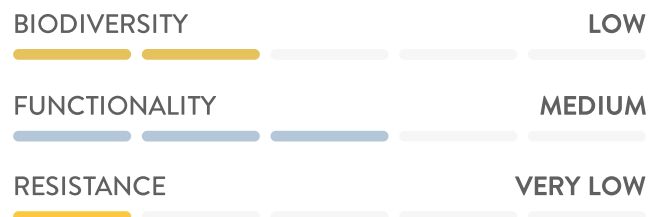
Ranks

-  Not Detected
-  Very low
-  Low
-  Medium
-  High
-  Very High

SOIL QUALITY

Soil Quality Value

HIGH



HEALTH

HEALTH MEDIUM 4
Disease Risks found

Crop health according to the pathogens detected

Slight Risk Detected



ASPERGILLUS ROT



LOW Risk level



FUSARIUM ROT



LOW Risk level

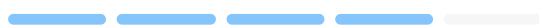
BLACK BUNDLE DISEASE • PENICILLIUM EAR ROT AND BLUE EYE

Not Detected

- ALTERNARIA LEAF SPOT • ANTHRACNOSE • LATE WILT (CEPHALOSPORIUM WILT) • BACTERIAL LEAF STREAK
- CHARCOAL ROT • COMMON SMUT • DIPLODIA ROT • NORTHERN CORN LEAF BLIGHT • ERWINIA
- STALK ROT • EYESPOT • GOSS' WILT • GRAY LEAF SPOT • NIGROSPORA ROT • PYTHIUM ROT • RED
- ROOT ROT • RHIZOCTONIA ROT • SOUTHERN RUST • STEWART'S WILT

Biocontrol

FUNGICIDE AGENTS HIGH



BACTERICIDE AGENTS MEDIUM



INSECTICIDE AGENTS VERY HIGH



NEMATOCIDE AGENTS MEDIUM



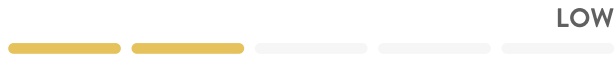
HORMONE PRODUCTION

MEDIUM 3
Detected

Microbial phytohormone potential based on Microbial species detected

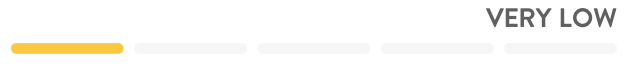
AUXIN PRODUCTION (IAA)

- CELL DIVISION
- STEM ELONGATION



CYTOKININ PRODUCTION (CK)

- CELL PROLIFERATION
- CELL DIFFERENTIATION



GIBBERELLIN PRODUCTION (GA)

- STEM ELONGATION
- GERMINATION
- FLOWERING



STRESS ADAPTATION

MEDIUM 7
Detected

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

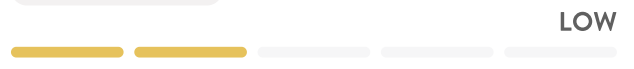
EXOPOLYSACCHARIDE PRODUCTION

- NUTRIENT TRAP
- SALINITY PROTECT.
- DROUGHT PROTECT.



ACC DEAMINASE (ACC-D)

- PATHOGEN PROTECT.
- SALINITY PROTECT.
- DROUGHT PROTECT.



HEAVY METAL SOLUBILIZATION

- BIOREMEDIATION
- DETOXIFICATION

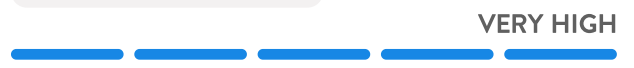
ALLEVIATE HEAVY METAL STRESS



SALICYLIC ACID (SA)

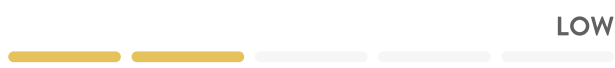
- DROUGHT PROTECT.
- SALINITY PROTECT.

ALLEVIATE HEAVY METAL STRESS



SALT TOLERANCE

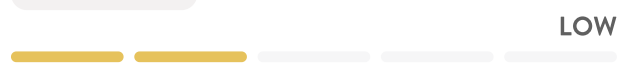
- SALINITY PROTECT.
- ROOT GROWTH PROMOTION



ABSCISIC ACID (ABA)

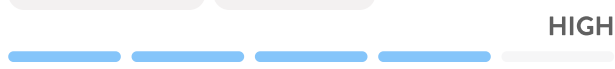
- GROWTH REGULATION
- PLANT RESISTANCE

INCREASE YIELDS



SIDEROPHORE PRODUCTION

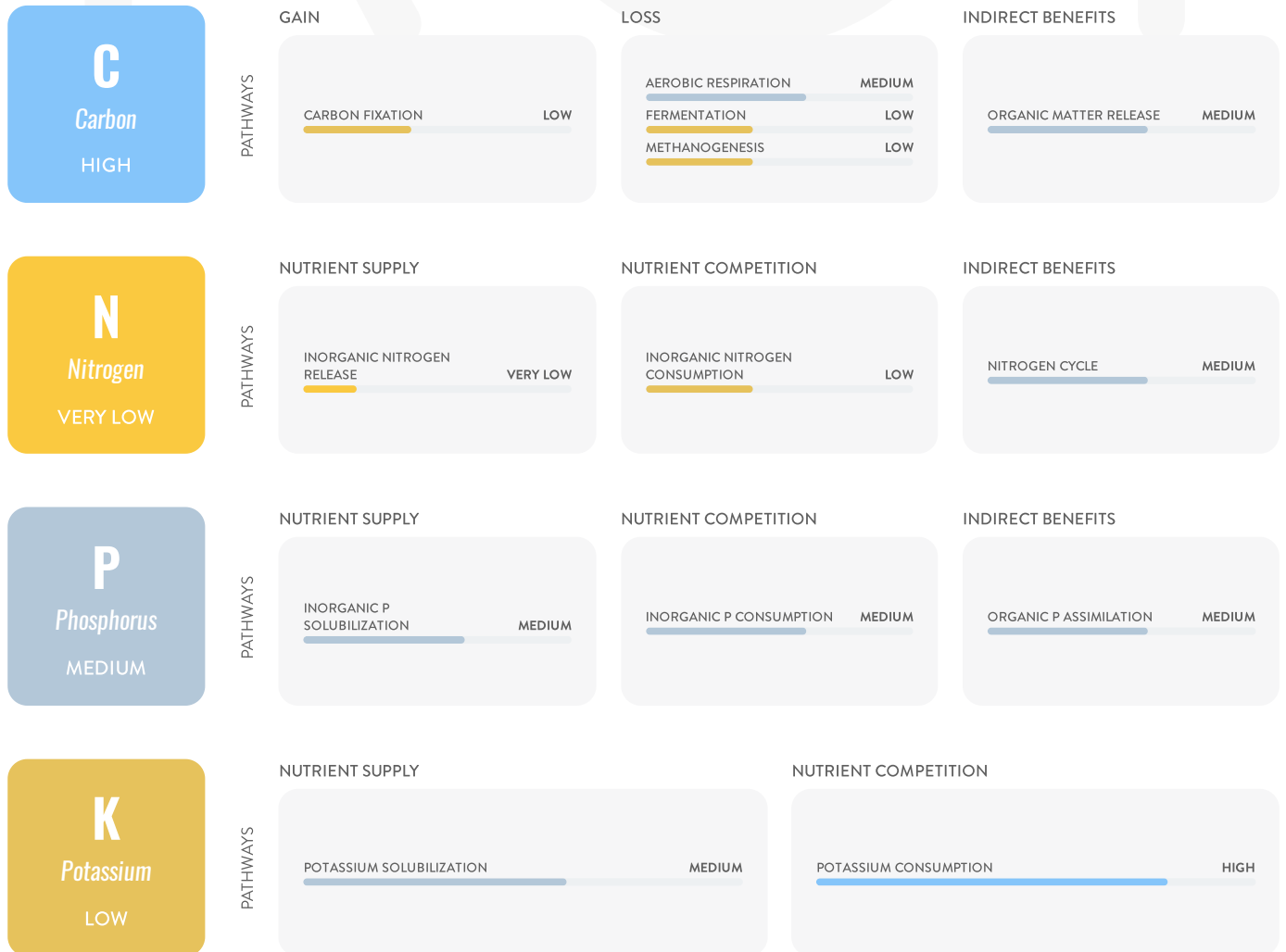
- IRON AVAILABILITY
- BIOFERTILIZER



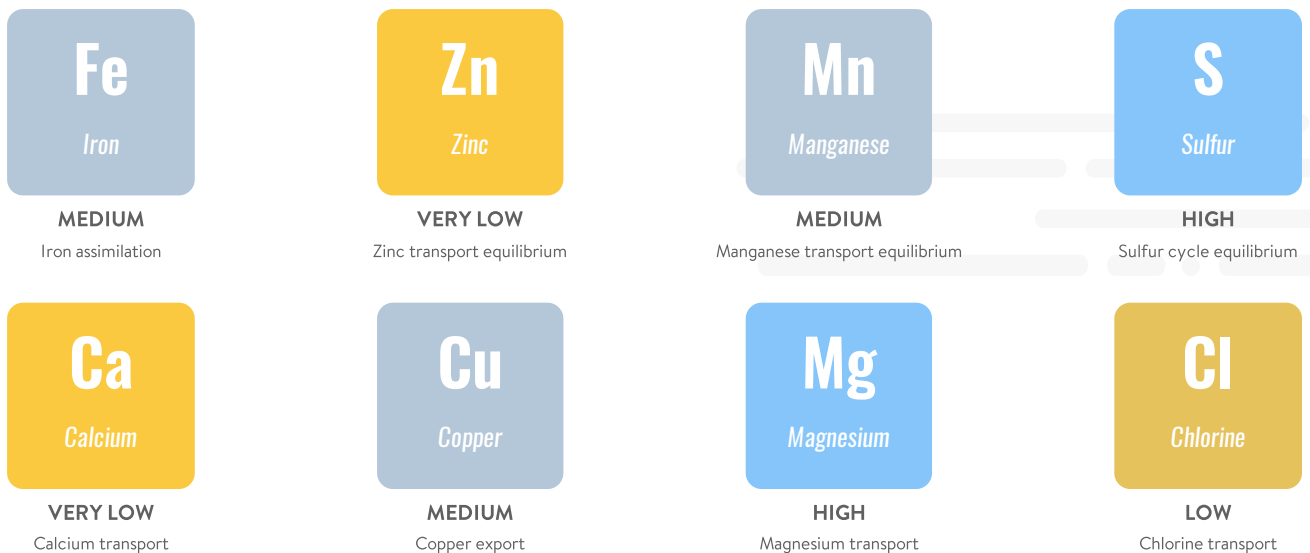
NUTRITION

Nutritional status based on the microbial mobilization of certain compounds

Major Compounds



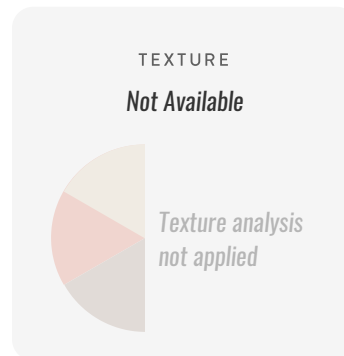
Minor Compounds



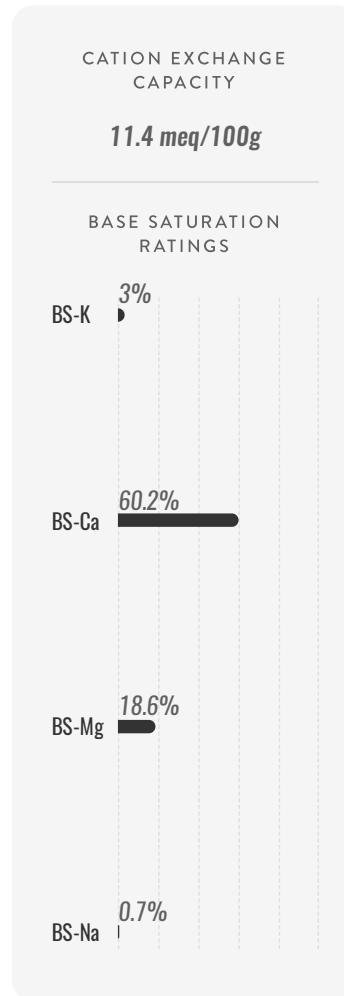
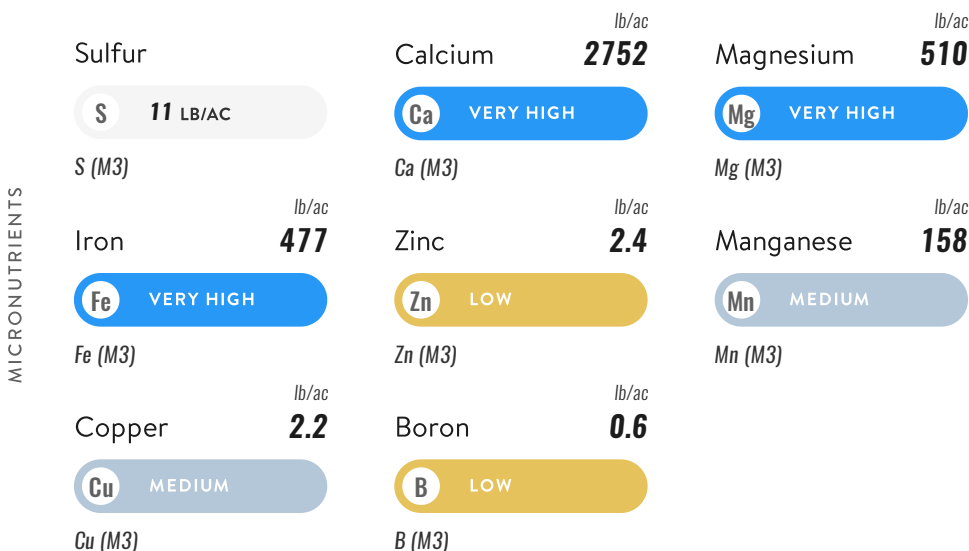
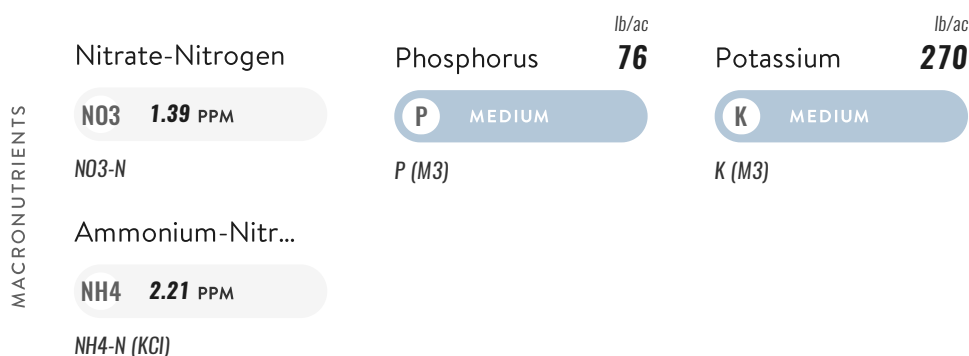
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CHEMICAL FERTILITY RATINGS 4

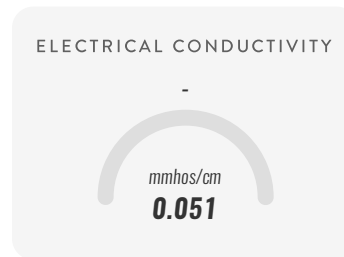
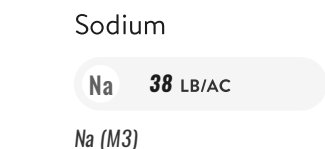
General Insights



Extractable Elements



Detrimental Elements



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