

# Résultats Plateforme 2021



# Nutrition innovante

COLZA / COMPARAISON ANUELLE D'EFFICACITÉ DE 2 BIOSTIMULANTS APPLIQUÉS AU SEMIS



Microbiome Analysis Report



Silt loam

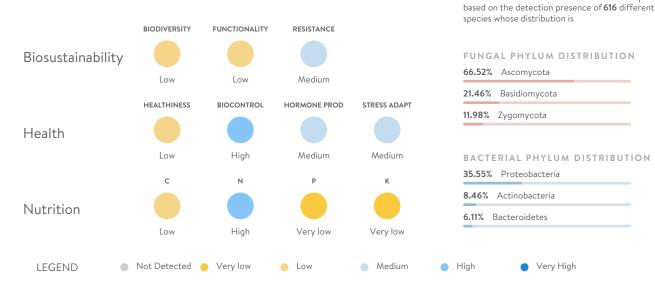
**CROP** Rapeseed (colza) **VARIETY** 

DATE

All the information shown in this microbial report is

? To be competed 25-Aug-2020

## SUMMARY



## **CONCLUSIONS**

- The Phosphorus and Potassium nutrition values are low.
- The healthiness value is Low, we have found one relevant disease risk (Root rot).
- You have a Low biodiversity value. Aggressive management can be affecting your soil biosustainability.

## BIOSUSTAINABILITY



Richness, evenness and equilibrium of microbial species



Capability of soil microbial communities to perform multiple functions



Ability of communities or populations to remain unchanged when stressed by disturbance

## HEALTH



Crop health according to the pathogens detected



**ROOT ROT** 

LEAVES, ROOTS



(((v)) Widely spread

100 out of 100 parcels analysed are affected by Root rot

**RISK LEVEL** 

HIGH

Based on 2 pathogens

! FEATURED MICROORGANISM FOUND

related to Root rot

Fusarium sp. • FUNGUS

**SLIGHT RISK DETECTED** 



DAMPING OFF

MEDIUM Risk level

**NOT DETECTED** 

ALTERNARIA BLACK SPOT • BLACKLEG • DOWNY MILDEW • POD ROT • POWDERY MILDEW • SCLEROTINIA STEM ROT • WHITE LEAF SPOT • WHITE RUST • SEEDLING DISEASE COMPLEX

Microbiome Analysis Report



BC-R-Othe-ITS3-16S4-BPP1-2020-09-09-022013-2/4

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

Fungicide agents

HIGH

Insecticide agents

LOW

Bactericide agents

NOT DETECTED

Nematicide agents

HIGH

Microbial species grouped according to the type of phytohormone they generate

Auxin production (IAA)

CELL DIVISION STEM ELONGATION

MEDIUM

Cytokinin production (CK)

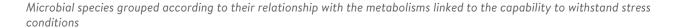
CELL PROLIFERATION CELL DIFFERENTIATION

MEDIUM

Gibberellin production (GA)

STEM ELONGATION GERMINATION FLOWERING

HIGH



Exopolysaccharide production

NUTRIENT TRAP SALINITY PROTECT. DROUGHT PROTECT.

MEDIUM

Heavy metal solubilization

BIOREMEDIATION DETOXIFICATION ALLEVIATE HEAVY METAL STRESS LOW

Salt tolerance

SALINITY PROTECT. ROOT GROWTH PROMOTION

MEDIUM

Siderophore production

IRON AVAILABILITY BIOFERTILIZER

MEDIUM

ACC deaminase (ACC-d)

PATHOGEN PROTECT. SALINITY PROTECT. DROUGHT PROTECT.

HIGH

Salicylic acid (SA)

DROUGHT PROTECT. SALINITY PROTECT. ALLEVIATE HEAVY METAL STRESS HIGH

Abscisic acid (ABA)

GROWTH REGULATION PLANT RESISTANCE INCREASE YIELDS

VERY HIGH





Nutritional status based on the microbial mobilization of certain compounds

## MAJOR COMPOUNDS



### **CARBON PATHWAYS**



## NITROGEN PATHWAYS







## **PHOSPHORUS PATHWAYS**





# NUTRIENT SUPPLY Potassium solubilization VERY LOW

Potassium consumption

MEDIUM

## MINOR COMPOUNDS



**HIGH**Calcium transport

LOW







Magnesium transport



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