



MICROBIAL ANALYSIS REPORT

Rebuilder 0 - 17 - 0 - 12

All the information shown in this microbial report is based on the detected presence of 1017 different species.

AT A GLANCE

- **1,017 Microbial Species: Enhances soil biodiversity.**
- **Fungal & Bacterial Balance: Boosts nutrient cycling and organic matter breakdown.**
- **Long-Term Soil Health: Ideal for degraded soils and land reclamation.**
- **Sustainable & Regenerative: Promotes lasting soil restoration and moisture retention.**

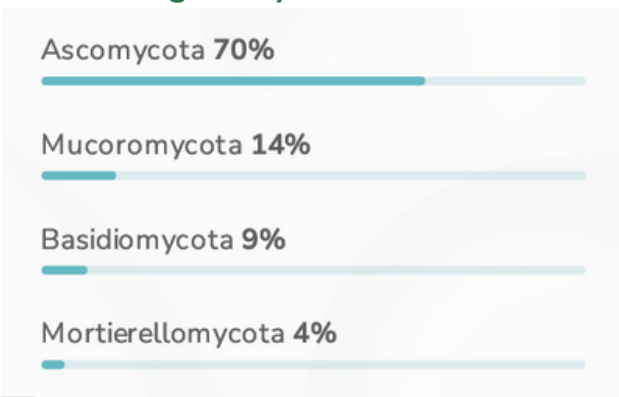
OVERVIEW

The Rebuilder formula's microbial testing results showcase its positive impact on microbial diversity, reflecting the presence of 1,017 different microbial species. These findings highlight how the product supports a thriving and complex soil ecosystem essential for healthy crop production and sustainable soil management.

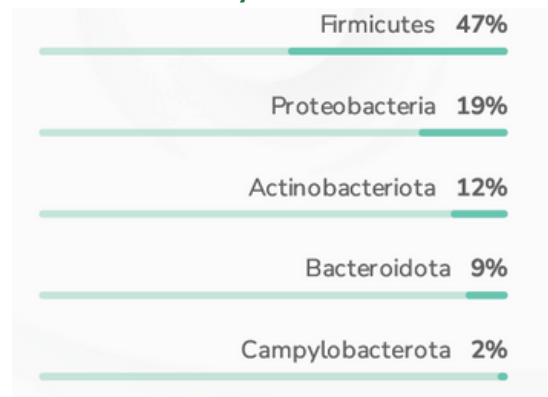
ABOUT

The Biome Makers: BeCrop Test analyzes bacterial and fungal populations using 16S and ITS sequencing. Instead of measuring nutrient levels, it assesses key microbial processes like carbon fixation, nutrient cycling, and mineralization. The results provide functional insights into identifying and categorizing the bacteria and fungi found in the final product at various taxonomic levels, such as phylum, genus, or species.

Fungal Phylum Distribution



Bacterial Phylum Distribution



MICROBIAL COMPOSITION RESULTS

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FUNGAL PHYLUM DISCUSSION

- **Ascomycota (70%):** This is the largest fungal group detected. It includes fungi essential for decomposing organic matter and promoting nutrient cycling, such as saprophytic fungi and endophytes that improve plant resistance.
- **Mucoromycota (14%):** These fungi contribute to organic matter breakdown and support soil aggregation, which enhances soil structure.
- **Basidiomycota (9%):** Known for decomposing tough plant materials like lignin, this group improves organic matter turnover and soil fertility.
- **Mortierellomycota (4%):** Often associated with plant roots, these fungi help in nutrient uptake and promote disease resistance.

BACTERIAL PHYLUM DISCUSSION

- **Firmicutes (47%):** This dominant bacterial group plays a critical role in breaking down organic matter, producing beneficial enzymes, and suppressing plant pathogens.
- **Proteobacteria (19%):** Known for their metabolic diversity, they help in nitrogen cycling, improving soil fertility.
- **Actinobacteriota (12%):** These bacteria decompose complex organic substances and are known for producing antibiotics that prevent disease in crops.
- **Bacteroidota (9%):** They contribute to nutrient cycling, particularly nitrogen and phosphorus, and enhance soil organic matter content.
- **Campylobacterota (2%):** While less abundant, these bacteria can be part of normal soil microbial communities and potentially influence nitrogen transformations.

SO WHAT?

These results reflect how the Rebuilder formula creates a balanced environment with a variety of fungal and bacterial species, fostering a dynamic ecosystem. By promoting microbial diversity, the product enhances soil fertility, supports nutrient availability, and strengthens crops against diseases—demonstrating its value for sustainable agriculture.