

# BIO-MULCH

## Got Any Trash?

Post-harvest, fields are typically left with significant amounts of chopped straw, stalks, and stubble. Residues which can obstruct drilling, immobilise nitrogen, and act as a reservoir for soil-borne diseases, often persisting well into the next season. This is where Bio-Mulch offers a targeted, biological solution.

Bio-Mulch is a liquid biological input designed for easy application to post-harvest residues. It contains a fusion of beneficial bacteria, including *Bacillus licheniformis*, which accelerate the decomposition of straw, release locked-up nutrients, and contribute to the suppression of soil-borne diseases.

The addition of stabilised amino nitrogen and a natural soil conditioner creates optimal conditions for rapid microbial breakdown. By spring, residues are well on their way to becoming humus-rich soil, with visible worm activity and improved structure.

As decomposition progresses, essential nutrients such as nitrogen, phosphorus, and potassium are mineralised and returned to the soil, improving fertility for the next crop. In many cases, this enhanced nutrient recycling can lead to measurable reductions in fertiliser requirements.

## A Natural Approach

One of the most significant benefits of Bio-Mulch is its role in reducing disease pressure. By accelerating the breakdown of crop residues, helping to eliminate old roots and stubble that can harbour pathogens such as take-all, *Fusarium*, and clubroot. It's beneficial microbes and fungi actively compete with these harmful organisms in the soil. Producing natural antimicrobial compounds, which suppress disease activity and support healthier crop establishment.

## Bio-Positive

Bio-Mulch is simple to apply, just spray it onto crop residues post-harvest, ideally while soil conditions are still warm and moist. There's no need to incorporate it mechanically; it performs effectively under strip-till, min-till, and no-till systems. By improving residue breakdown and nutrient availability, Bio-Mulch can offset the need for additional fertiliser and may eliminate the need for an extra cultivation pass, offering both agronomic and financial benefits.

If persistent stubble, poor early crop vigour, or declining soil health are holding you back, it's time to harness the power of biology. Offering a bio-positive, practical solution for improved nutrient cycling and soil performance.



## A Biological Solution For Straw And Stubble

- Improves soil health naturally



- Breaks down trash

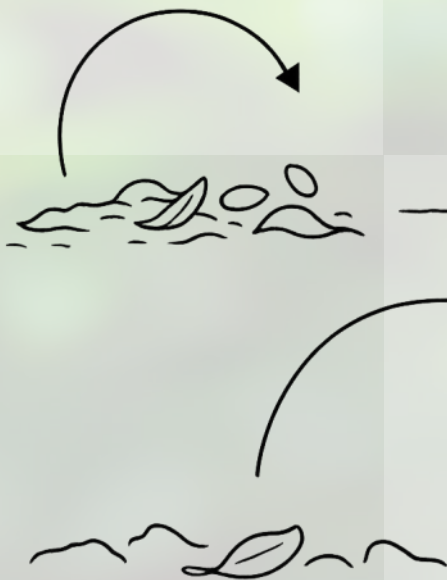


- Releases locked-up nutrients



## Trash Trouble? Fix It With Biology

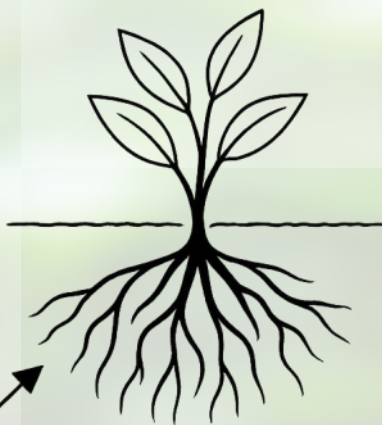
### RESIDUE BREAKDOWN



### NUTRIENT CYCLING



### SOIL IMPROVEMENT



**Before**



**After**



## From Stubble To Savings

- Breaks down straw and stubble fast
- Releases locked-up nutrients (N, P, K, micros)
- Improves soil structure and biology
- Reduces disease risk from residue
- Easy to apply – spray and leave

# BIO-MULCH



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