Tech Sheet: Cell Power® Zynergy™ Fungal Control Efficacy

OMEX Trials Centre | 2025/122

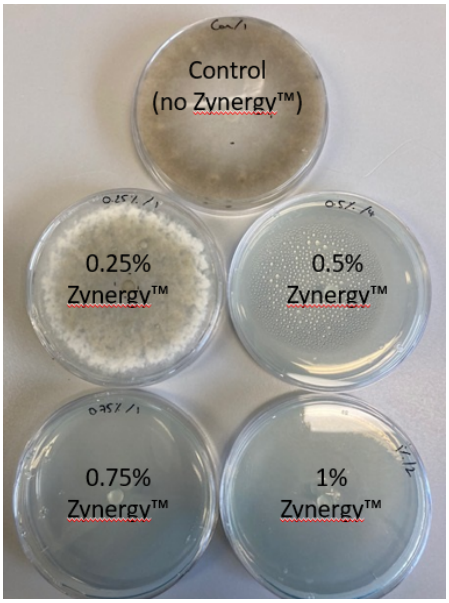
Product Overview

Cell Power® Zynergy™ is a zinc and copper-based formulation with strong antifungal properties. It disrupts fungal cell membranes and protein structures, while its high acidity (pH ~1.0) helps stop fungal growth.

Tested Fungal Pathogens

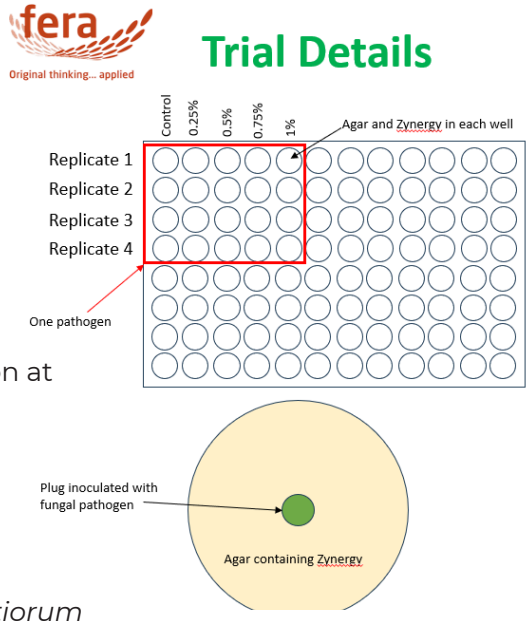
Plate tests were conducted by FeraScience to assess Zynergy's effectiveness against key fungal pathogens:

1. **Botrytis cinerea** (*Grey mold, bunch rot*) – Affects many crops; major economic losses worldwide.
2. **Zymoseptoria tritici** (*Septoria leaf blotch in wheat*) – Highly resistant to fungicides; costly disease in wheat production.
3. **Alternaria solani** (*Early blight in potatoes/tomatoes*) – Significant losses in global potato and tomato production.
4. **Phytophthora cactorum** (*Root/crown rot in fruits and ornamentals*) – High economic impact on apple, pear, and strawberry crops.
5. **Sclerotinia sclerotiorum** (*White mold, stem rot*) – Affects a wide range of crops; severe economic losses in canola and legumes.



Trial Details

- Method: Pathogens were grown on potato starch agar (96-well plates).
- Zynergy Concentrations Tested: 0.25%, 0.5%, 0.75%, 1% (v/v).
- Control: Non-treated agar for comparison.



Results

- Complete fungal growth inhibition at 0.25% Zynergy for:
  - *Botrytis cinerea*
  - *Zymoseptoria tritici*
  - *Alternaria solani*
  - *Phytophthora cactorum*
- 100% control of *Sclerotinia sclerotiorum* at 0.75% Zynergy and higher.

Key Takeaways for Growers

✅ **Broad-spectrum control – Effective against multiple economically significant fungal pathogens.**

✅ **Low application rates – 0.25% concentration stopped growth in most fungi.**

✅ **Potential field application – Further trials could confirm efficacy under real-world conditions.**

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