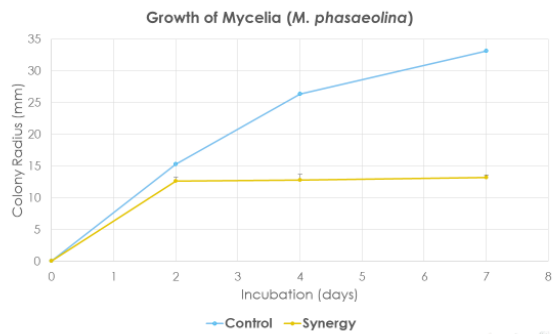


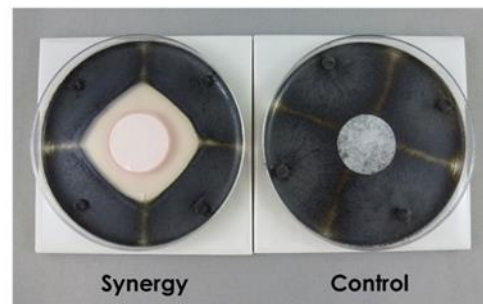
## Synergy inhibits the fungus that causes Charcoal Rot

- In Lab
- Synergy stopped the growth of *M. phaseolina* after 2 days incubation.
- Synergy significantly suppressed the growth of *M. phaseolina* by 60% at the end of the experiment.
- There was a zone with a radius of 9.82 mm around Synergy where *M. phaseolina* did not grow.
- Further testing showed that Synergy caused a fungistatic effect (stopped growth) against *M. phaseolina*, but not a fungicidal effect (did not kill the fungus).

### Growth of *Macrophomina*



### Image of *M. phaseolina* Experiment



- In field
- The suggested application is 2kg/ha fertigated so you see leaf movement (Sept-Oct) from there the *Bacillus* will colonize in the rhizosphere.
- The rhizosphere is the narrow region of soil that is directly influenced by root secretions and associated soil micro-organisms. Microbes can only impact plant health & growth if they colonize in this area. And Seawin's products are designed to maximise their colonization in the rhizosphere.



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- The second application 2kg/Ha (the most important one) is applied PRE trim/cut back (Feb) this is important as the bed will be exposed more heat drawing the Charcoal rot up in the soil profile, also plants are under a lot of stress at this period making them weaker to diseases.