

Services to companies: Laboratory trials – insects & mites

The parasitic wasp of woolly apple aphid (*Aphelinus mali*)

Technical question? Aims of the trial

Characterize the side effects of crop protection products used for pest control in orchards on *A. mali* (in order to explore/prove the suitability of those products for use in IPM programs)

- Spraying timing?
- Developmental stages (eggs, young/old larvae, mummies, adults)?
- Products with contact/systemic activity?
- Climatological conditions (T°C, RH, photoperiod)?

What are the side-effects of the test product against *A. mali* compared to reference products/control (check) ?

Trial summary

Trial in insect cages in plant growth chambers under controlled conditions (T°C, RH, photoperiod)

- Rearing of *A. mali* population on aphid-infested apple cut-shoots/seedlings infested (for testing the side-effects of products on different developmental stages)
- Treatments: Pre- (or post-) applications of (calibrated) dose rates (hand sprayer/ tower sprayer)
 - Minimal 4 replicates
 - Test product
 - Reference product: known toxic products
 - Control (check): water
 - Different application timings (depending on request/trial goals)
 - targeting different development stages: Eggs, young/old larvae, mummies, adults
 - Pre-parasitization versus post-parasitization applications
- Assessments (before and (or) after application, depending on request/trial goals)
 - Number of living/dead/affected/formed *A. mali* (eggs, young/old larvae, mummies, adults)
 - Offspring/adult performance
- Statistical analysis of outcomes



Trial output

- Regular trial/results updates
- Data in xls/docx/ARM
- Report (trial details, graphs, summary, conclusions)

- Certified and (inter)nationally recognized centre of excellence in fruit research
- 75 years of experience and expertise
- GEP accredited
- Highly valued contractor for numerous product developments the past 75 years

Interested? Please do not hesitate to contact us:

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