

Services to companies: Laboratory trials – insects & mites

Woolly apple aphids (*Eriosoma lanigerum*) on apple

Technical question? Aims of the trial

Which conditions are required/optimal for control of woolly apple aphids (WAA) (*E. lanigerum*) by the test product(s)?

- Dose rate?
- Developmental stages (aphids with wool/without wool, crawlers, old/new colonies)?
- Direct/indirect contact, systemic activity?
- Climatological conditions (T°C, RH)?

What is the efficacy of the test product against WAA compared to reference products?

Trial summary

Trial in insect cages in climate chambers under controlled conditions (T°C, RH)

- Rearing of WAA colonies on apple callus wood and/or shoots/seedlings (for testing direct contact and systemic activity)
- Treatments: Applications of (calibrated) dose rates (hand sprayer/ tower sprayer)
 - Minimal 4 replicates
 - Test product
 - Reference product (contact: pirimicarb/pyrethroid, systemic: spirotetramat)
 - Water (check)
 - Different timings (depending on request/trial goals)
 - targeting different development stages: aphids with wool/without wool, crawlers, old/new colonies)
 - preventive versus curative applications
- Assessments (1-x Days After Application, DAT)
 - Number of living/dead/affected WAA aphids
 - Colony formation/surface size
- Statistical analysis of outcomes

WAA on seedlings in controlled conditions



WAA on callus wood in controlled conditions



Trial output

- Regular trial/results updates
- Data in xls/ARM/docx
- 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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