

Services to companies: Laboratory trials – insects & mites

Pear bud weevil (*Anthonomus pyri*) Topical toxicity

Technical question? Aims of the trial

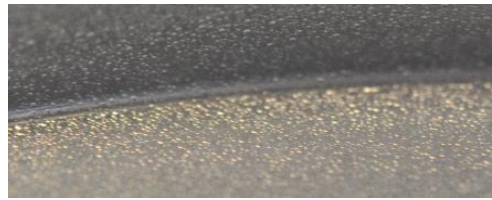
Determination of the toxicity of a topical application of insecticides against *Anthonomus pyri*:

- Screening for insecticides
- Determination of adult mortality (adulticide action)
- Determination of the speed of adult mortality
- Determination of difference in sensibility between different populations

Trial summary

- *A. pyri* weevils to be tested are obtained by collecting infested flower buds in the field and enabling them to pupate under controlled climate conditions in a plant growth chamber
- Treatment: Application of a fixed volume of insecticide solution using a Potter Spray Tower (Burkard Scientific):
 - Potter spray tower = the international standard for exact and uniform topical application
 - Different test products at different concentrations
 - Positive and negative reference (check): purified water
- Transfer of the treated *A. pyri* weevils in to clean petri-dishes
- Assessments:
 - Number of living/dead/affected *A. pyri*
 - Timing dependent on insecticidal action
- Statistical analysis of outcomes

Exact and uniform micro-droplet coverage



Trial output

- Data in xls/ARM + Report (M&M, graphs, summary, conclusions)
- Adulticide action: mortality rates in function of time of insecticide residues
- Screening of interesting compounds

- 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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