



Services to companies: Laboratory trials – insects & mites

## Fruit crop aphids

### Technical question? Aims of the trial

Which conditions are required/optimal for control of fruit crop aphids by the test product(s)?

- Dose rate?
- Developmental stages (aphid nymphs/adults, winged/wingless aphids)?
- Direct/indirect contact, systemic activity?
- Climatological conditions (T°C, RH, photoperiod)?

What is the efficacy of the test product against aphids compared to reference products/control (check)?

### Trial summary

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

- Rearing of aphid colonies on potted seedlings and/or leaf discs placed in petri dishes
- Treatments: Applications of (calibrated) dose rates (hand sprayer/ tower sprayer)
  - Minimal 4 replicates
  - Test product
  - Reference product : known effective products
  - Control (check) : water
  - Different treatment timings (depending on request/trial goals)
    - targeting different development stages: mixed or separated aphids (nymphs and/or adults, winged/wingless )
    - preventive versus curative applications
- Assessments
  - Number of aphids 2 hours before the spraying
  - Number of living/dead/affected aphids 1-7 days after spraying (depending on trial goals)
  - Behavioral responses of aphids to test product (dispersing, gathering, winged aphid formation)
  - Plant damage level (leaf curl, honeydew production, sooty mold growth)
- 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:

pcfruit vzw, Zoology Department (services to companies):

Tim Belien [tim.belien@pcfruit.be](mailto:tim.belien@pcfruit.be) Tel. +32 (0)11/69.71.30

Eva Bangels [eva.bangels@pcfruit.be](mailto:eva.bangels@pcfruit.be) Tel. +32 (0)11/69.71.31

