

# Collecting and sending green peach aphids (GPA) for resistance testing

#### Sampling/collecting GPA

- GPAs are often unevenly distributed across a paddock and these patches of aphids can represent different clones (biotypes) of aphids that differ in levels of resistance. It is therefore important to collect a representative sample of GPA from across a paddock in order to accurately determine the resistance status of your population.
- If possible, collect a bulk of >50 individual aphids per paddock. Try and randomly select **5 sampling points at least 20 m apart**. Collect GPA from 3-5 plants at each sampling point. Where possible, collect > 20 aphids at each sampling point. We need at least 50 individual aphids from each paddock to complete resistance testina.
- At each plant, directly remove (cut) leaves that contain GPA, leaving the aphids undisturbed.
- Place the aphids and leaves in a **non-crushable plastic container** with small pinholes in the lid for ventilation. Also place a piece of tissue into the container to absorb excess moisture (do not send samples in zip lock bags or in a way whereby aphids can be squashed in the post).

### **Sending GPA samples**

- Samples should be sent via overnight express post. Do not send samples towards the end of the week or over the weekend.
- Once samples have been posted, please notify us via email at sdelittle@cesaraustralia.com. This will ensure samples are processed in a timely manner.

Samples should be addressed to: resistance testing service cesar 293 Royal Parade, Parkville VIC 3052

#### **Data collection**

Adequate collection data is essential for successful resistance testing. To assist us, please print the below 'cesar GPA resistance testing field recording sheet', fill out all the details and include when posting your sample.









## cesar GPA resistance testing field recording sheet Collection date..... Collector name..... Phone: Mobile: Email: Grower name(s): Paddock name: Paddock/Crop Road address: GPS at collection point (decimal): **Paddock Details** Crop - ..... Crop growth stage - ..... **Paddock History** Crop Last year - .....

### Insecticide History – Fill in information and then circle any treatments that failed

	Pre-sowing	Seed treatment	Bare earth (PSPE)	Seedling emergence	Other sprays
	Chemicals / rates / why?	Chemical / commercial or famer treated/rate/why?	Chemicals / rates / why?	Chemicals / rates / timing	Chemicals / rates / timing / why?
This year					
Last year					

0	Other notes and details of any control failures:																																															
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