

KVH PROTOCOL



Resistance to Psa control products

Background

It is important to limit the spread of new genetically distinct strains of Psa that can impact on the efficiency of control products and kiwifruit productivity. An ongoing resistance monitoring programme has identified Psa strains showing a genetic diversity and a range of levels of resistance to protectant spray products. The potential impact of these new strains of Psa varies dependent on the genetic makeup.

Our knowledge around these new strains of Psa is growing over time as new science becomes available and we see the impacts of these strains on kiwifruit plants in the orchard. Properties identified with new strains of Psa that are showing signs of resistance to control products may have movement restrictions placed on them subject to knowledge about the level of risk associated with the strains. Movement restrictions may be removed as more knowledge comes to hand about the risk or the presence of these strains.

Scope

Orchard strategies should aim to reduce the risk of any resistance to a Psa protectant spray developing, and to minimise the build-up and spread of resistant populations when present.

Strict hygiene and movement controls will assist in reducing spread both within the orchard or to other orchards.

Notification

KVH will notify orchards that have been identified with strains of Psa that show resistance to control products and present increased risk.

Requirements

If a strain of Psa showing resistance to control products has been confirmed as presenting risk by KVH, the following should be adhered to:

1. Movement restrictions

No plant material is to be moved off the orchard without KVH approval. This includes:

- Budwood
- Flowers for pollen milling
- Rootstock/plants
- Kiwifruit wood for firewood
- Kiwifruit vines or pruning
- Seedlings and seeds for propagation

2. Hygiene

Ensure strict orchard hygiene measures are in place:

- Visitors/orchard workers/contractors to remove all plant material from clothing and sanitise hands and footwear before leaving the orchard.
- Sanitise tools regularly
- Remove and dispose of infected material by burning or burying on site.
- Restrict vehicle movement into the orchard to essential vehicles only.
- Clear all vehicles leaving the orchard of plant material and sanitise if going to another orchard.

3. Harvest hygiene practices:

- Take steps to minimise plant debris entering the bins during harvest.
- Check full bins before transporting to the packhouse and remove obvious plant material.
- Clear all harvest equipment including picking bags of plant material. Sanitise before use on another orchard.

4. Additional requirements

- Implement any additional requirements advised by KVH – e.g. crop protection product choice, orchard monitoring, increased testing etc.

5. Update Orchard Biosecurity Orchard Management Plan

- to include all requirements above

Also refer to: [KVH Best Practice Advice: Managing resistance to Psa control products.](#)