

GETTING THE BEST OUT OF AUREO GOLD

TIMING

Apply any time from bud break to 6 weeks post flowering. Trials indicate good crop safety when AUREO GOLD is applied over the flowering and fruit set period. Apply AUREO GOLD at 7-14 day intervals whenever Psa protection is required.

USE RATES

Apply AUREO GOLD at 50g per 100L of water, in 600 to 1000 litres of water per hectare. (Observe current Zespri best practice guidelines).

ACHIEVING GOOD COVERAGE

Thorough coverage is essential for optimum disease control. The addition of an adjuvant, Du-Wett® or Driftstop®, is highly recommended.

COMPATIBILITY

AUREO GOLD is compatible with a wide range of bactericides, fungicides, insecticides and adjuvants i.e. Actigard®, Kasumin®, Proclaim®, Prodigy®, Luna Privilege®, Movento®, Rovral®, Duwett®, DriftStop®. DO NOT use in spray mixtures with copper. DO NOT combine AUREO GOLD in the spray tank with pesticides or fertilisers unless prior experience has shown the combination to be compatible.

RESISTANCE STRATEGY

Research to date indicates that AUREO GOLD does not produce anti-microbial compounds and therefore resistance development is unlikely. AUREO GOLD is best applied in a programme with other plant protection products that are active on and recommended for the management of Psa. DO NOT apply more than 4.5kg active ingredient /ha with a maximum of 10 applications /ha /year.



A NATURAL ALLY IN THE BATTLE AGAINST Psa

**Psa IS A DEVASTATING DISEASE.
HELP IS HERE. NATURALLY.**

**AUREO GOLD IS AN EXCITING NEW BIO
BACTERICIDE WITH PROVEN PROTECTANT
ACTIVITY AGAINST Psa INFECTION.**

Containing the yeast-like fungus
Aureobasidium pullulans, AUREO GOLD
offers a local solution to a global problem.

- Proven in extensive field trials
- Flexibility. Apply AUREO GOLD at any stage from leaf emergence through to 6 weeks post flowering
- Excellent crop safety
- Bee friendly
- Resistance management tool
- Compatible with a wide range of bactericides, fungicides, insecticides and adjuvants

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A LOCAL SOLUTION TO A GLOBAL PROBLEM AND IT ALL STARTS WITH AN APRICOT

Pseudomonas syringae pv. *actinidiae* (Psa) is a devastating disease of kiwifruit, both in New Zealand and in other major kiwifruit producing countries. AUREO GOLD is a bio bactericide with protectant activity against Psa infection. Containing the yeast-like fungus *Aureobasidium pullulans*, AUREO GOLD offers a local solution to the global problem of Psa. A New Zealand innovation success story, AUREO GOLD was discovered and isolated from an Otago apricot by New Zealand Plant & Food Research scientists. Extensive field trials have demonstrated AUREO GOLD's protectant efficacy. Offering outstanding flexibility around timing of application, and excellent crop safety, AUREO GOLD is a bee friendly, Psa management tool to assist kiwifruit growers in the battle against Psa.

MODE OF ACTION

Studies by Plant & Food Research and AgResearch are ongoing to better understand the complex nature in which AUREO GOLD brings about a reduction in Psa. Research suggests that AUREO GOLD has multiple modes of action, including, but not limited to, the following;

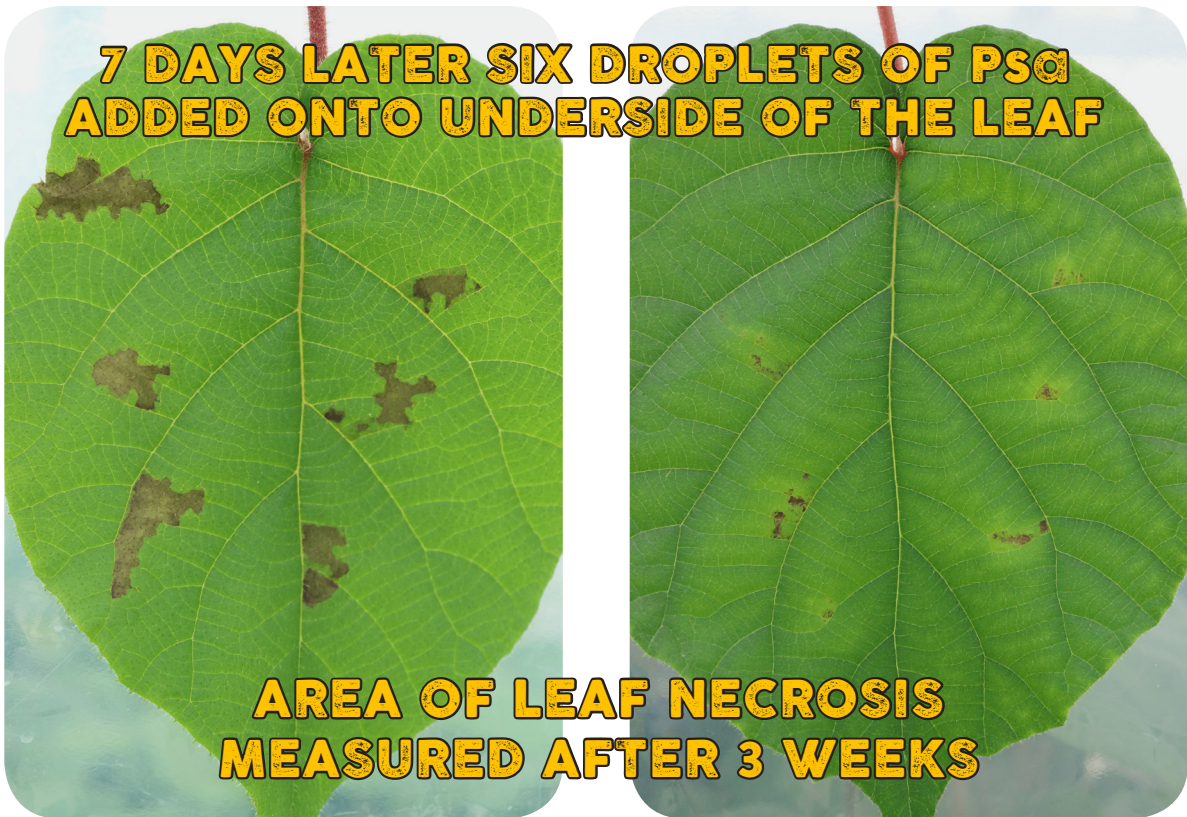
1. Physical disruption of Psa cells on leaf surfaces, that appears to affect the ability of Psa to colonise stomata – a key point of entry into the leaves.
2. Acting as an elicitor activating kiwifruit host defence genes. Studies have shown AUREO GOLD to prime at least two kiwifruit host defence genes, allowing the plant to react more quickly and to a higher degree to the presence of Psa.

PLANT AND FOOD RESEARCH

POTTED PLANT Psa LEAF INFECTION ASSAY

LEAF SPRAYED WITH WATER

LEAF SPRAYED WITH AUREO GOLD

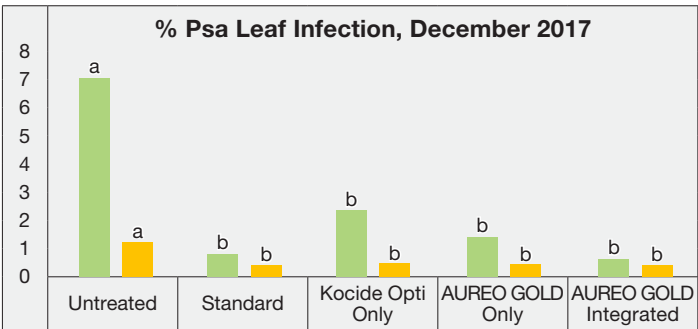
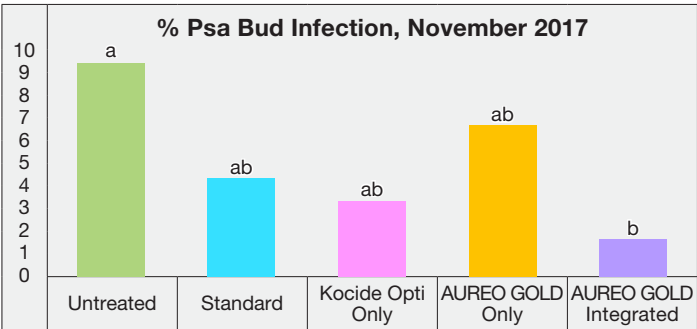


LEAF NECROSIS SIGNIFICANTLY REDUCED WITH AUREO GOLD

AUREO GOLD, A NATURAL PERFORMER

HAYWARD KIWIFRUIT, BAY OF PLENTY. 2017/18*

| CROP STAGE | | | | | | |
|-----------------------|---------------------------|-------------|-------------|---------------|------------------------|------------|
| Program | Early shoot growth 3-10cm | +10-14 Days | +10-14 Days | Pre-Flowering | + 10-14 Days Flowering | Fruitset |
| Untreated | - | - | - | - | - | - |
| Standard | Kocide® Opti™ | Kasumin® | Actigard® | Kocide Opti | - | - |
| Kocide Opti only | Kocide Opti | Kocide Opti | Kocide Opti | Kocide Opti | - | - |
| AUREO GOLD only | AUREO GOLD | AUREO GOLD | AUREO GOLD | AUREO GOLD | - | - |
| AUREO GOLD Integrated | Kocide Opti | Kasumin | AUREO GOLD | AUREO GOLD | AUREO GOLD | AUREO GOLD |

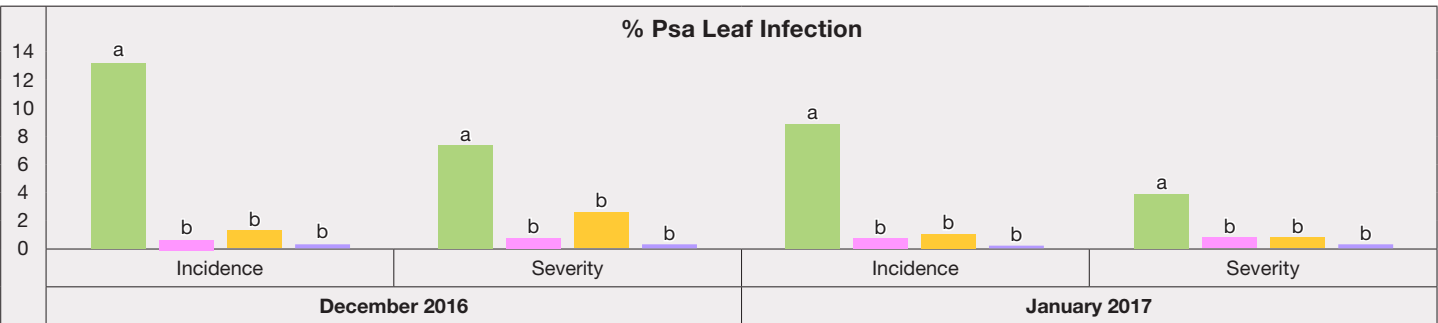


* Peak Research

■ Incidence ■ Severity

HAYWARD KIWIFRUIT, BAY OF PLENTY. 2016/17*

| Crop Stage | | | | | | |
|-----------------------|----------------|--------------------|--------------------|-------------|----------------|------------|
| Program | Shoots 3-10 cm | 21 Days Pre-Flower | 10 Days Pre-Flower | Pre-Flower | 90% Petal Fall | Fruitset |
| Untreated | - | - | - | - | - | - |
| Kocide Opti only | Kocide Opti | Kocide Opti | Kocide Opti | Kocide Opti | - | - |
| AUREO GOLD only | AUREO GOLD | AUREO GOLD | AUREO GOLD | AUREO GOLD | - | - |
| AUREO GOLD Integrated | Kocide Opti | Kasumin | Kocide Opti | AUREO GOLD | AUREO GOLD | AUREO GOLD |



* Peak Research

■ Untreated ■ Kocide Opti Only ■ AUREO GOLD Only ■ AUREO GOLD Integrated