Overview of important diseases





Botrytis

- Saprophyte- A fungus that lives on decaying or dead organic matter
- Fungal hyphae absorb sugars and nutrients from the decaying plant matter which supports sporulation.
- Considered mainly a secondary pathogen







Botrytis- High risk conditions

- Thrives in high humidity environments
- Poor ventilated areas
- Unheated areas that fluctuate in temperature
- Low light levels
- Recently trimmed plants/ exposed wounds
- Stressed plants
- Overwintered plants
- Infected plants close by or decaying material







Botrytis control strategies

- Ventilation and airflow
- Plant spacings
- Monitoring
- Irrigation
- Variety selection
- Hygiene
- Preventative fungicide applications

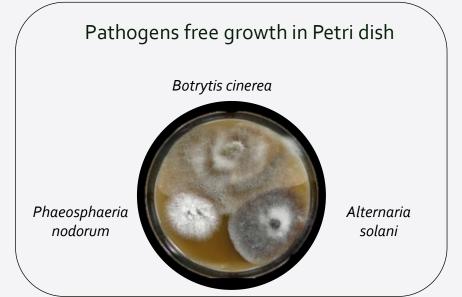


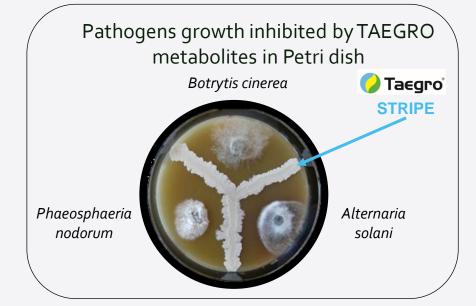




Integration of Taegro for botrytis control

- Important to apply after trimming/ if there are any exposed wounds
- Consider applying if temperatures are persisting between 15–22°C and above 85% humidity
- Reapplication every 7-10 days during high risk periods









Powdery mildew

- Host specific obligate parasite
- Fungal spores germinate on the plant tissue and distinct white mycelium threads branch out
- Feeding is carried out by haustoria entering the epidermis
- Overwinter as cleistothecia- the fruiting structure or as mycelium
- Spores spread through the air, water, clothing and insects

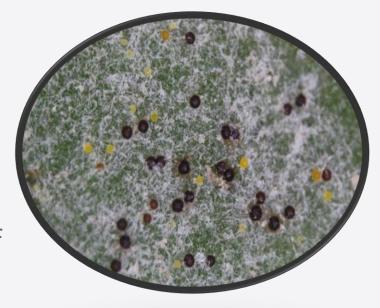






Powdery mildew- High risk conditions

- Thrives warm high humidity conditions
- Poor ventilated and damp areas
- Areas with fluctuating temperatures
- High amounts of new vegetative growth
- Overwintered plants that are within the host plant range of the new crop







Powdery mildew control strategies

- Ventilation and airflow
- Plant spacings
- Monitoring
- Irrigation
- Variety selection
- Hygiene
- Fertiliser management
- Preventative fungicide applications





Integration of Taegro for powdery mildew control

- Important to apply during vegetative plant growth
- Consider applying if temperatures are persisting between 20-27°C
- Reapplication every 7-10 days during high risk periods









Downy mildew

- Oomycete organism
- A disease present in wet conditions as it requires prolonged leaf wetness.
- Angular damage on the leaf surface with grey spores sitting under the leaf.
- Foliar disease spread from plant to plant through airborne spores.









Downy mildew- High risk conditions

- Preference for temperatures between 15-23°C and humidity above 85%
- Poor ventilated and damp areas
- Unheated areas with fluctuating temperatures
- Overhead irrigation





Downy mildew control strategies

- Ventilation and airflow
- Plant spacings
- Monitoring
- Irrigation
- Variety selection
- Hygiene
- Preventative fungicide applications





Integration of Taegro for downy mildew control

- Consider applying if conditions are persisting between 15-23°C and humidity above 85%
- Apply when first signs of the disease have been observed
- Tank mixability to increase efficacy
- Reapplication every 7-10 days during high risk periods







Other diseases controlled

- Mode of action
 - Surface colonisation competition on the plant surface against pathogens
 - Release of antimicrobial metabolites.
 - Induced systemic resistance enhances plant resistance.
- Listed diseases on EAMU- Alternaria and sclerotinia
- Additional activity has been reported in overseas trials against
 Mycosphaerella, Xanthomonas, Pseudomonas and also soil born
 Rhizoctonia and Fusarium but these diseases are not on the UK label
 and efficacy cannot be guaranteed.





Thank you for your attention are there any questions?

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