



nexus®

Dual action fungicide

Powerful Botrytis and
Downy Mildew Control*

LOCAL INTELLIGENCE.
GLOBAL SCALE.

arxada



ACTIVE INGREDIENT

Nexus combines the protectant power of two different fungicides in a ratio that delivers true synergy. Fluazinam belongs to the dinitroaniline chemical group and fludioxonil belongs to the phenylpyrrole chemical group.

MODE OF ACTION

The two active ingredients in Nexus, fluazinam (FRAC 29) and fludioxonil (FRAC 12), have different but complementary modes of action. By applying this protectant fungicide preventatively, at any of the key strategic timings, Botrytis is controlled at multiple sites in the disease development cycle.

MOVEMENT IN PLANTS

Nexus provides dual action protection as both active ingredients stay on the plant surface and are therefore not diluted by plant growth or systemic movement. They remain active in the zone of infection on the plant surface. This makes Nexus a valuable Botrytis management tool.

FORMULATION TECHNOLOGY

Nexus is a free flowing liquid, developed by the Arxada research team in New Zealand. The modern formulation plant in New Plymouth uses up to date formulation components and techniques. The reliably small particle size of the active ingredient ensures quick mixing and excellent flow through spray equipment.

DISEASE SPECTRUM

Nexus is highly effective against Botrytis (*Botrytis cinerea*). This has been scientifically tested and commercially used over a number of seasons. During severe Botrytis disease conditions, Nexus has proven itself to deliver enhanced protection compared to leading market standards. With the addition of just 50ml/100L of Pinnacle (fluazinam) to Nexus, robust control of Downy mildew is achieved.

RESISTANCE MANAGEMENT

Nexus is an important tool in managing anilinopyrimidine (AP) resistance, as neither fungicide active ingredient belongs to this at risk mode of action group. Furthermore they are themselves unrelated, therefore providing a robust combination.

RESIDUES

Nexus applications at the registered withholding period of 21 days carries a very low risk of residues in wine. Intensive studies have so far failed to find any residue above the limit of detection (0.01 ppm) following multiple applications of Nexus. With the addition of Pinnacle (50ml/100L) to Nexus for effective Downy mildew control, the withholding period is 28 days.

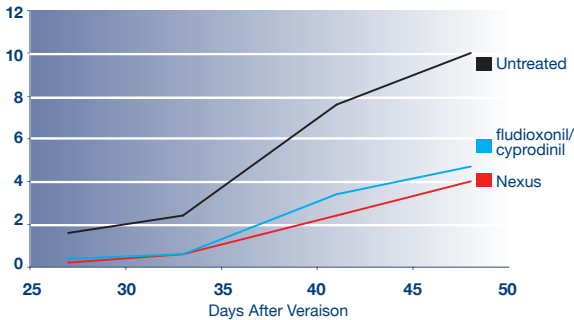
FIELD TRIAL DATA

The following graphs illustrate the excellent disease control achieved with Nexus over three seasons. They show the development of Botrytis as the proportion of the crop that is lost to disease infection over time from the last application. All trials were replicated and sprayed as dilute applications.



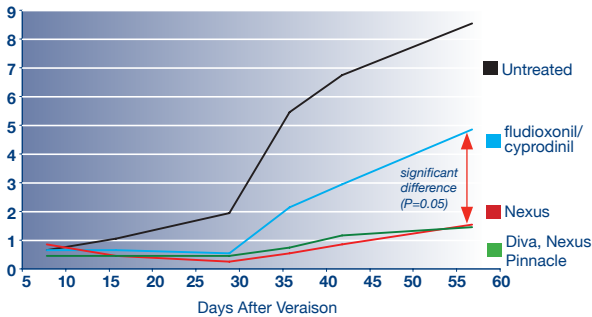
BOTRYTIS BUNCH AREA INFECTED (%)

SEMILLON - HAWKES BAY (2009/10) TRIAL 2297



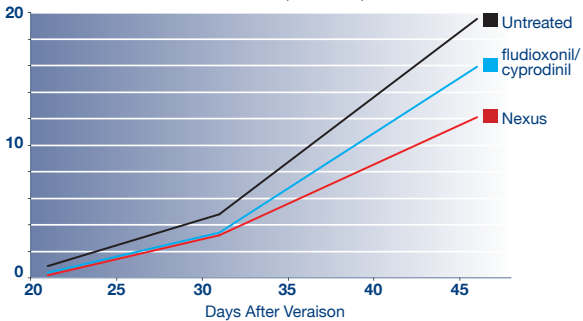
Sprayed at pre bunch closure & veraison. Treatments significantly different ($P=0.05$) vs untreated. Both treatments sprayed with fludioxonil/cyprodinil at flowering.

SEMILLON - HAWKES BAY (2010/11) TRIAL 2409



Treatments sprayed at flowering, pre bunch closure and veraison. Program is; Diva - pyrimethanil (flowering), Nexus (pre bunch closure) & Pinnacle (veraison).

PINOT GRIS - HAWKES BAY (2011/12) TRIAL 2533



Sprayed at pre bunch closure & veraison. No fungicide at flowering. Nexus is significantly different ($P=0.05$) vs untreated. Fludioxonil/cyprodinil is not significant.

GETTING THE BEST OUT OF

nexus[®]

Nexus is a unique combination of two active ingredients for maximum protection against Botrytis. It was conceived and designed with modern viticultural practices in mind.

Application: Nexus can be applied as a high volume or concentrated spray via all conventional equipment, as either a full canopy spray or directed to the bunch line. In every case ensure complete coverage of the bunch zone.

Timing: Use Nexus at any of the key Botrytis control timings. Use a maximum of 2 applications of Nexus per season. For the addition of effective Downy mildew control, include Pinnacle. Maximum 3 applications of fluazinam per season.

Rate: For Botrytis use 200 ml/100 litres of Nexus, as a dilute spray to the point of runoff. For Downy mildew control, add 50 ml/100 litres of Pinnacle. Concentrate application rates have to be adjusted from equivalent dilute rates determined for particular canopy architecture. Consult the New Zealand Winegrowers Vineyard Spray Schedule for further advice.

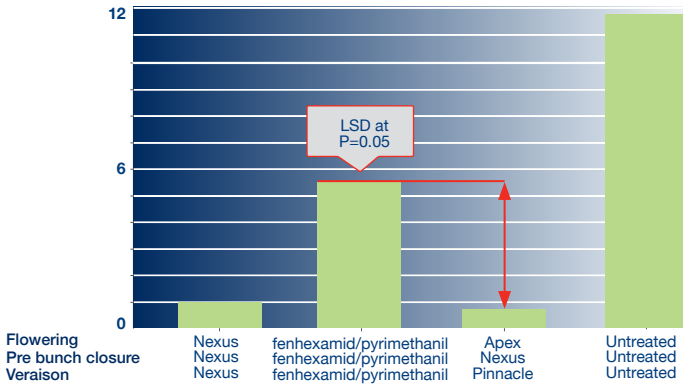
Surfactant: Always add a non-ionic surfactant to maximise coverage.

*when 50ml/100L Pinnacle is added to Nexus

Modern canopy architecture requires less water than canopies of the past when a number of older fungicides were developed. **Nexus** was developed and tested with modern vineyard practices in mind, by utilising application directions consistent with the SWNZ best practice guidelines. Therefore the rate is based on dilute application with adjustment for concentrate spraying and not on a per hectare basis.

BOTRYTIS BUNCH AREA INFECTED (%) 34 days after veraison

HAWKES BAY (2013) TRIAL 2658



THE NEXUS ADVANTAGES

- ✓ Unique mixture chemistry
- ✓ Synergistic ratio of active ingredients
- ✓ Modern flexible use rates
- ✓ Proven efficacy
- ✓ Easy to use liquid
- ✓ Non AP chemistry
- ✓ Consistent with industry programs
- ✓ Effective Downy mildew control (with the addition of Pinnacle)



Arxada is a company of high-performing teams who are encouraged to act with an entrepreneurial spirit, on behalf of customers.

Arxada delivers solutions for crop protection, specialising in fungicides, insecticides, herbicides, foliar nutrients and additives. With a strong focus on the development, marketing and technical support of a broad range of smart agrichemical products targeted to the needs of farmers and growers. For more information visit www.arxada.co.nz

This brochure represents findings from research, technical experience and label claims. For full use instructions read the product label.

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