

**KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

# FRUITION<sup>®</sup> NATFLAV<sup>®</sup> 500

**ACTIVE CONSTITUENT:  
420 g/L PROTEIN MATERIAL**

*A premium quality yeast bait for use in a baiting mixture and applied in a program for newly emerged and immature fruit flies.*

*Can be used in conjunction with Fruition<sup>®</sup> Traps in an IPM control program.*

**Distributed by:**  
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**Contents 20 L**

# FRUITION<sup>®</sup> NATFLAV<sup>®</sup> 500

Fruition<sup>®</sup> Natflav<sup>®</sup> 500 is a premium quality yeast bait for use as an attractant in a baiting mixture with any insecticide approved for this use. The gelatinised baiting mixture is used in a baiting program for newly emerged and immature fruit flies.

When used in conjunction with Fruition<sup>®</sup> Traps according to that product label, Fruition Natflav 500 in a gelatinised baiting mixture can form part of an IPM control program for Queensland fruit fly (*Bactrocera tryoni*).

Efficacy of a fruit fly control program is dependent on a range of factors including fruit fly numbers, crop history and susceptibility, crop canopy, size and density, crop value, surrounding crop type and maturity stage, seasonal conditions, etc.

For effective management of fruit fly, Fruition Natflav 500 should be used as part of a broader strategic control program. This should involve other products approved for the control of fruit flies, including Fruition Traps which will attract and trap mature egg-laying female Queensland fruit flies.

In all situations begin protein bait spraying early, before fruit become susceptible to fruit fly infestation, and compliment protein bait spraying with use of Fruition Traps to allow monitoring of fruit fly population dynamics. If numbers of mature egg-laying female fruit flies continue to increase following implementation of a program of Fruition Natflav 500 protein bait sprays and Fruition Traps, cover spraying of an approved insecticide may be required.

## DIRECTIONS FOR USE:

### USE IN COMBINATION WITH AN INSECTICIDE APPROVED FOR THIS USE AS PART OF AN IPM PROGRAM FOR CONTROL OF FRUIT FLIES.

SITUATION	PEST	RATE	CRITICAL COMMENTS
Crops susceptible to fruit fly attack	For example: Queensland fruit fly ( <i>Bactrocera tryoni</i> ), Lesser Queensland fruit fly ( <i>Bactrocera neohumeralis</i> ), Jarvis' fly ( <i>Bactrocera jarvisi</i> ), Cucumber fly ( <i>Bactrocera cucumis</i> )	Fruition Natflav 500: 2-6 L/100 L gelatinised water, PLUS Recommended rate of approved insecticide.	The following recommendations are provided as a general guide. Always adhere to the approved insecticide label for specific directions for use. Yeast autolysate protein products can cause crop phytotoxicity. Always adhere to the approved insecticide label directions to reduce the risk of crop phytotoxicity.  Follow the withholding period provided on the label of the insecticide being used.  Protein bait sprays attract and kill immature male and female fruit flies both of which require protein to reach sexual maturity. Higher use rates of Fruition Natflav 500 will increase bait attractiveness.  Apply 50-100 mL of gelatinised Fruition Natflav 500 <i>plus</i> insecticide baiting mixture per tree as a coarse spray.  For optimal control of fruit flies, gelatinised Fruition Natflav 500 <i>plus</i> insecticide bait applications should commence well before the fruit becomes attractive to mature egg-laying female fruit flies i.e., from the early stages of fruit set, when fruit is still hard and green.  Fruition Natflav 500 must ALWAYS be applied using gelatinised water for maximum efficacy and increased bait resistance to weathering.  Repeat applications as per the instructions on the label of the insecticide being mixed with Fruition Natflav 500, and at least every 7 days.  Rainfall will wash the baiting mixture off the crop: it will be necessary to reapply the baiting mixture following rainfall.  Avoid application of the baiting mixture to fruit or other edible commodities.

SITUATION	PEST	RATE	CRITICAL COMMENTS
Citrus – additional instructions	For example: Queensland fruit fly ( <i>Bactrocera tryoni</i> ), Lesser	Fruition Natflav 500: 2-6 L/100 L gelatinised water, PLUS	Critical comments as above for crops susceptible to fruit fly attack. Apply as above OR at 15-20 L/ha total volume as a 30 cm band at skirt level of trees for area wide control.
Vegetables and berry crops	Queensland fruit fly ( <i>Bactrocera neohumeralis</i> ), Jarvis' fly ( <i>Bactrocera jarvisi</i> ), Cucumber fly ( <i>Bactrocera cucumis</i> )	Recommended rate of approved insecticide.	Critical comments as above for crops susceptible to fruit fly attack. Do not apply directly to crop. Spray perimeter vegetation around the outside of the crop. Where Queensland fruit fly is specifically being targeted apply the spray at a height of 1.5-2 m onto the perimeter vegetation; where cucumber fly is being targeted, apply the spray at a height of 0.5-1 m onto the perimeter vegetation.
Crops susceptible to fruit fly attack	Mediterranean fruit fly ( <i>Ceratitidis capitata</i> )		The following recommendations are provided as a general guide. Always adhere to the approved insecticide label for specific directions for use. Yeast autolysate protein products can cause crop phytotoxicity. Always adhere to the approved insecticide label directions to reduce the risk of crop phytotoxicity. Follow the withholding period provided on the label of the insecticide being used. Protein bait sprays attract and kill immature male and female fruit flies both of which require protein to reach sexual maturity. Commence weekly bait spraying when fruit is half size. Where Mediterranean fruit fly pressure is expected to be high, begin bait spraying at fruit set. SPOT APPLICATION: Apply 50-100 mL of bait mixture in coarse droplets (4-6 mm in size) to foliage. Apply to every tree in a row; alternate the sides treated at each application. BAND SPRAY: Apply as a band spray to each tree in a row or, with a spray rig set up to spray both sides of a row, travel up and down every second row so that trees are not being double sprayed. It is recommended to continue bait spray applications for at least 4 weeks after harvest to ensure that flies emerging from the soil are controlled. Continue treating any citrus trees while fruit remains on other trees as citrus are favoured resting places for Mediterranean fruit fly. Bait spraying in Autumn is recommended as Mediterranean fruit flies present at this time are the source of infestation in the following spring.

**PREPARATION**

The day prior to spraying the baiting mixture prepare gelatinised water by adding Fruition Xanthan Gum powder to water at a rate of 5 g/L and agitating thoroughly.

On the day of application, mix the gelatinised water thoroughly until a uniform consistency is achieved. Prepare the baiting mixture by adding Fruition Natflav 500 at a rate of 2 to 6 L/100 L of gelatinised water in combination with HY-MAL® INSECTICIDE or an alternative insecticide approved for this use according to the DIRECTIONS FOR USE table on the insecticide label.

Agitation should be maintained throughout the mixing process and until application is completed. Only prepare enough baiting mixture for use on the day of application.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area.

DO NOT store for prolonged periods in direct sunlight.

Triple rinse containers before disposal. Add rinsings to spray tank. Dispose of the containers through an approved waste disposal system.

Keep out of reach of children.

**SAFETY DATA SHEET**

If additional information is required refer to the Safety Data Sheet. For a copy visit our website [agnova.com.au](http://agnova.com.au)

**CONDITIONS OF SALE**

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This label requires no additional statements in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

In a transport emergency dial 000, Police or Fire Brigade.  
For specialist advice in an emergency only, call 1800 033 111 (24 hours).

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