INVADER-B-LOK™

Effective Control of Oriental Fruit Fly



Effective

No Residues

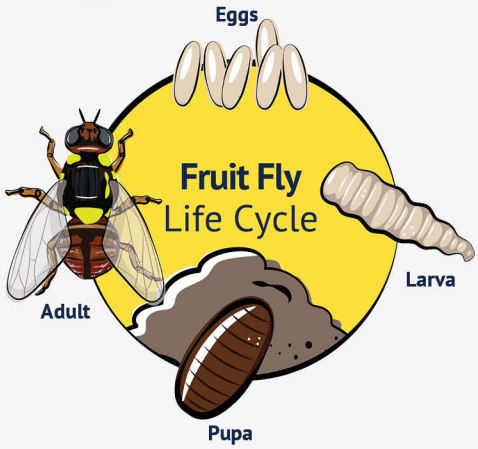
IPM Friendly

River Bioscience

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The Problem:

The production of citrus, deciduous and subtropical fruits are usually constrained by local fruit fly pests which either cause direct damage resulting in crop losses or restrict market access as they are a phytosanitary pest.



How Do Fruit Flies Damage Your Crops?

Fruit flies sting fruit to deposit their eggs, which hatch into larvae. These larvae feed on the fruit pulp leading to decay and secondary infections.

The Solution: INVADER-B-LOK™

Invader-B-Lok™ is a fibre block impregnated with methyl eugenol and mercaptothion (an organophosphate insecticide). The methyl eugenol component of the Invader-B-Lok™ is highly attractive to males of several *Bactrocera* species, including the oriental fruit fly. Male fruit flies, which are attracted to the methyl eugenol mixture, die upon contact with the mercaptothion.

Invader-B-Lok™ Benefits:

Apart from the Invader-B-Lok™ being safe to both the environment and the consumer, there are a number of advantages to using Invader-B-Lok™:

Effective

It contains a highly specific attractant, of natural origin for several species of fruit fly, particularly of the genus *Bactrocera*.

Specific

It does not harm fish, birds or wildlife and has minimal effect on most beneficial insects.

IPM Friendly

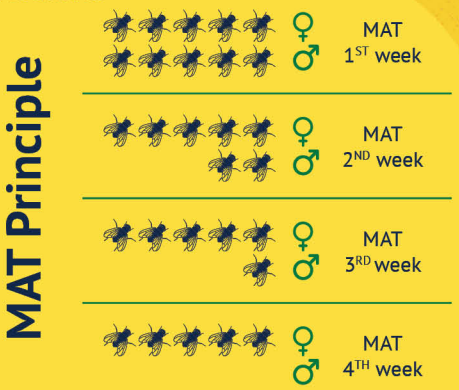
Invader-B-Lok™ is therefore fully compatible with an Integrated Pest Management (IPM) programme.

No Residues

There are no restrictions on using Invader-B-Lok™ up to the time of harvest, as Invader-B-Lok™ does not leave any residues on the fruit.

How Does Invader-B-Lok™ Work?

The application of Invader-B-Lok™ follows the principle of male annihilation technique (MAT) (see below illustration), targeting high levels of male mortality for species that respond to methyl eugenol. Eradicating males significantly reduces the amount of mating encounters in the fruit fly population, thereby suppressing the population and lowering fruit infestation.



Efficacy of male annihilation is largely improved when combined with protein baiting, either through sprays or use of protein bait stations, such as the M3™ Bait Station which target the females.

Invader-B-Lok™ Efficacy & Trial Data:

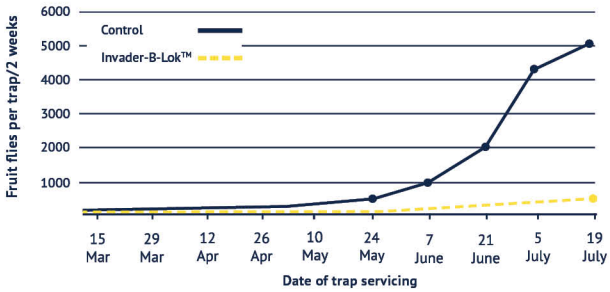
Research has shown that Invader-B-Lok™ is extremely effective against the oriental fruit fly. Trials conducted in Benin, using methyl eugenol and mercaptothion impregnated blocks for annihilation of male oriental fruit fly, in collaboration with Citrus Research International (CRI), showed a substantial reduction in male numbers with consequent reduction in fruit fly infestation of mangoes and a greater harvest of marketable mangoes.

Research trials conducted over a 2-year period in Nelspruit found that Invader-B-Lok™ at 10-12 blocks per ha performed significantly better than 4 blocks/ha at reducing fruit fly infestation on Star Ruby grapefruit.

The Result:

97% Fruit fly reduction by using Invader-B-Lok™

Population trends of male fruit fly in methyl eugenol traps in control (solid line) and Invader-B-Lok™ treated orchards (dashed lines).



Invader-B-Lok™ was found to be a highly effective method that results in significant reductions in fruit fly numbers and significantly reduced fruit infestation compared to untreated orchards.

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Scan for more info

Invader-B-Lok™ - Reg. No. L8585 Act No. 36 of 1947 | Group 1B Insecticides

WARNING | Hazard Statements: Harmful if swallowed. May cause allergic reaction. Suspected of causing genetic defects. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.
Active Ingredients: Methyl eugenol 13.5 g per bait station, Mercaptothion 4.5 ml per bait station | **READ THE LABEL BEFORE USE | Use only as directed**
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