

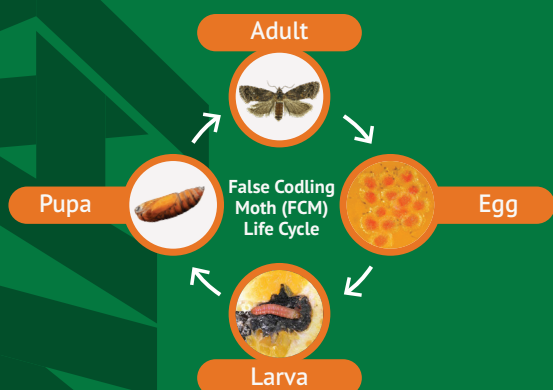
CRYPTOMAX™

Effective Biological Control of
False Codling Moth in Citrus Orchards



The Problem:

False codling moth (FCM) is a pest species well-known to both local and international fruit producers for the damage they inflict on fruit, which can cause significant loss to crop yields and the producer's return on investment. Phytosanitary implications can have an effect on exporting fruit in certain markets.



How does FCM damage your crops?

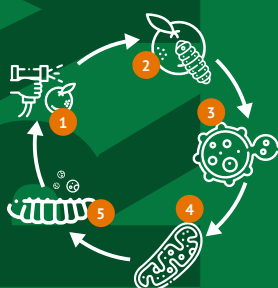
- Newly hatched larvae penetrate the fruit.
- Larval penetration holes in fruit can only be found with the aid of thorough inspection.
- On ripe fruit, penetration holes eventually become sunken and brown as damaged tissue decays.
- An infested fruit usually falls from the tree three to five weeks after penetration by a larvae.
- In the packhouse, it is difficult to identify fruit that becomes infested shortly before harvest - leading to post-harvest decay and potential phytosanitary interceptions in receiving markets.

The Solution: **CryptoMax™**

River Bioscience has developed CryptoMax™, a new insect pathogenic virus formulation that targets and kills FCM larvae before they infest fruit.

Once the product is applied, newly hatched FCM larvae are exposed to CryptoMax™ on the surface of fruit. Larvae ingest the virus particles while attempting to penetrate the fruit and are subsequently killed.

How does CryptoMax™ work?



1. CryptoMax™ is sprayed onto crops.
2. FCM larvae ingest the virus from the surface of the fruit.
3. Protective protein layer of virus is digested by high pH of midgut.
4. The virus is absorbed by microvilli. The virus replication begins in nuclei of midgut cells.
5. The virus spreads throughout larvae and secondary replication occurs. The larvae dies and releases virus particles into the surrounding environment causing secondary infection.

CryptoMax™ Benefits:



Efficacy

Scientific trials and performance data have shown that CryptoMax™ is as effective as chemical applications, and often more effective than other biopesticides.



Early Application

Results of the studies showed that an additional early spray of CryptoMax™ at the first flight peak significantly reduced the cumulative fruit drop compared to applications in November and February only.



Longevity

Up to 4-12 weeks after CryptoMax™ application, mortality can still be measured.



Competitive Pricing & High A.I./OB's

Both CryptoMax™ & Cryptogran™ have the highest active ingredient loading on the market for FCM control, making it the best value for money.



IPM Friendly

CryptoMax™ has an IPM rating of one - highly IPM compatible. This means that it does not contribute to secondary pest outbreaks and can be used safely in a programme with augmented beneficial insect releases.



MRL Management

No chemical residues or MRLs.

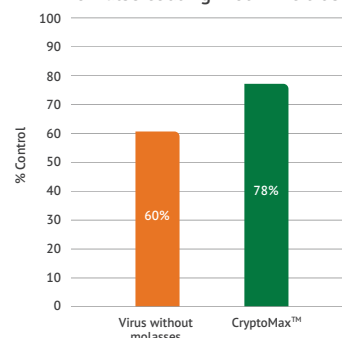
CryptoMax™ Efficacy & Trial Data:

Efficacy results indicate that CryptoMax™ reduces FCM infestations by over 70% on average for 4-12 weeks after application.

Through extensive research River Bioscience has developed a granulovirus formulation which ensures CryptoMax™ maintains a high level of efficacy without the addition of molasses as a feeding stimulant.



Average reduction in infestation of false codling moth in citrus



Reduction in infestation of false codling moth in citrus



Therefore, CryptoMax™ can be applied with greater ease in citrus orchards, saving producers both time and money. However, when producers are fighting severe levels of pest pressure, they will still benefit by including a feeding stimulant.



River Bioscience (Pty) Ltd.
admin@riverbio.com
5th Floor, Fairview House,
Fairview Office Building, 66 Ring Road
Greenacres, PE, 6045
PO Box 20388, Humewood, 6013

Scan for
more info



CRYPTOMAX™ L11248
River Bioscience (Pty) Ltd.

Active Ingredient:
Cryptophlebia leucotreta granulovirus
(CrLeGV-SA) at least 5×10^{10}
occlusion bodies (OBs)/ml