

Adermatt

Madumbi



Cryptex[®]

Reg. No. L8037, Act 36 of 1947

Bio Crop Protection | Root Health | Plant Vitality



Cryptex®

Reg. No. L8037, Act 36 of 1947

Cutting edge granulovirus technology for the suppression of False Codling Moth (FCM – *Cryptophlebia/Thaumatotibia leucotreta*) on various crops as specified on the label.

Why use Cryptex®?

Features	Benefits
Locally isolated granulovirus strain, manufactured in Switzerland by world renowned virus specialists, Andermatt Biocontrol Suisse AG.	Proven and consistent efficacy against FCM on a variety of crops.
Highly effective FCM reduction and damage control when applied as recommended.	An effective granulovirus product is one of the best tools available to reduce target pest populations.
Very specific target range.	Cryptex® will not affect any beneficial organisms and is harmless to bees.
Unique mode of action.	Mode of action of virus products differ from chemical insecticides, making them ideal for use in IPM and resistance management programs.
User friendly SC formulation.	Advanced formulation allows for: <ul style="list-style-type: none"> • Versatile application options. • No feeding stimulant (molasses) needed. • Lipophilic characteristics ensure excellent adhesion and rain fastness. • Can be tank mixed with most agricultural products provided pH is correctly managed. • Excellent shelf life; min. 24 months at 4 °C, unlimited if kept at -18 °C.
Non-toxic, no MRL requirements and has no withholding period.	Cryptex® is suitable for organic and conventional agriculture and can be applied during the harvesting period.

How does Cryptex® work?

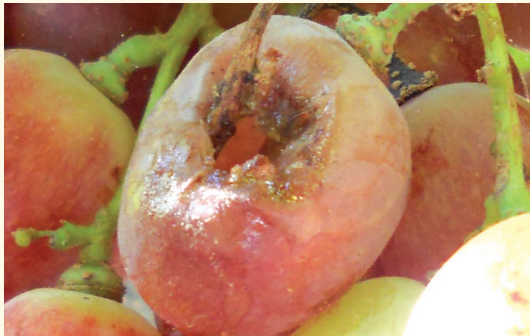
Cryptex®, a *Cryptophlebia/Thaumatotibia leucotreta* Granulovirus is produced by Andermatt Biocontrol Suisse AG. With more than 36 years' experience in virus production Andermatt's process ensures Cryptex® product quality and consistent performance. Cryptex® contains encapsulated virus particles, which are applied just after peaks in FCM flights. It has to be ingested by FCM larvae to be effective. Once ingested the alkaline conditions in the FCM midgut dissolves the protective capsule, activating the virus particle and infects the rest of the larvae resulting in death. Buffering of the spray mix (pH 5 to 8) is extremely important as very alkaline or acidic conditions could dissolve the protective capsule in the spray tank and decrease the virus particle's tolerance to environmental conditions, as well as overall efficacy.



Photo above:
FCM larva infected with virus particles.

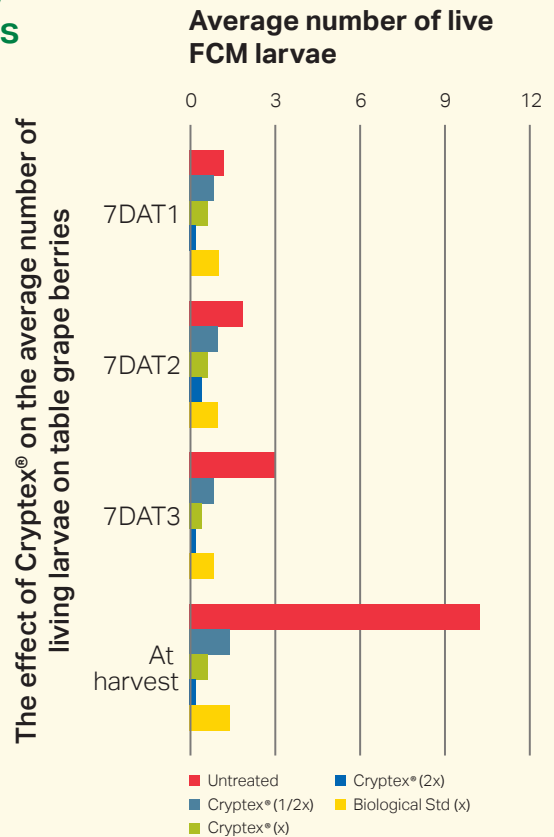
Efficacy of Cryptex® against False codling moth (*Thaumatotibia leucotreta*) on table grapes

(Scarlotta cultivar – Paarl, Western Cape)



FCM damage on grapes

Figures right: The graph compares the average number of live FCM larvae in table grape berries after applications of Cryptex® (½X, X and 2X) compared to a biological standard as well as an untreated control. Applications were made after peaks in FCM moth flights and all treatments were evaluated 7 days after each treatment and at harvest. Cryptex® at all the rates provided significant reduction of the incidence of live FCM larvae in berries and Cryptex® at the X and 2X rates were the best treatments overall.



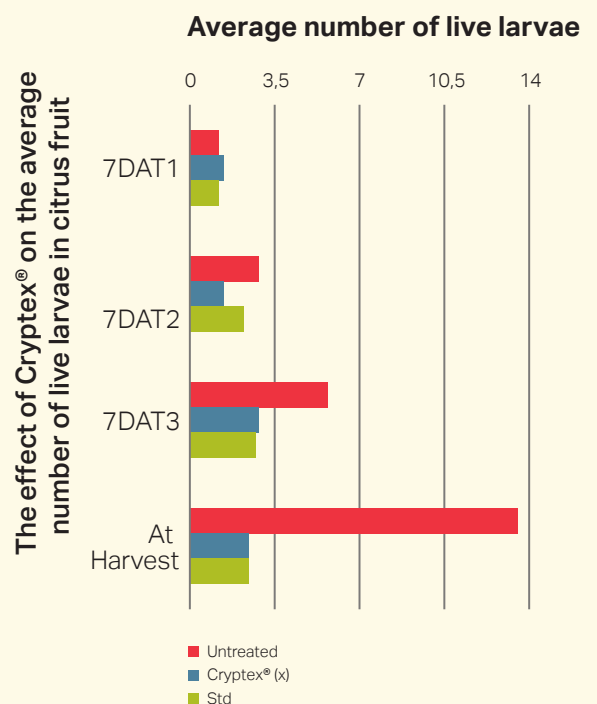
Efficacy of Cryptex® against False codling moth (*Thaumatotibia leucotreta*) on citrus fruit

(Cultivar – Nules, Stellenbosch, Western Cape)



FCM on citrus

Figures right: The graph compares the average number of live FCM larvae found in citrus fruit after applications of Cryptex® (3.3 ml per 100 litres water – maximum 330 ml/ha) compared to a biological standard as well as an untreated control. Treatments were applied after peaks in FCM moth flights and all treatments were evaluated 7 days after each application as well as at harvest. Cryptex® at the recommended dose rate (X) provided excellent reduction of FCM larvae resulting in significant population reduction.



Cryptex® production, formulation and quality control:

Andermatt Biocontrol Suisse AG, established in 1988, is a leading producer of virus products with extensive experience in manufacturing these viruses for commercial pest control. Granulovirus particles are covered by a natural occlusion capsule, which protects the virus from environmental factors. Inadequate procedures during production, improper timing of harvest, incorrect formulation and inappropriate co-formulants can lead to incomplete or damaged viruses which results in reduced stability, impacting the virus' efficacy.

Andermatt Biocontrol Suisse AG has optimised the production procedure to ensure that the virus particles are not damaged and maintain their virulence under varying application conditions. Product quality is very important for the Swiss company, and therefore their product efficacy is determined by evaluating the product on the relevant host insect itself. In the case of Cryptex®, each batch is tested via bioassay against FCM larvae. The quality control on FCM larvae ensures that only the most effective products are put on the market.

Registered uses

Pest	Crop	Dose rate
False codling moth	Citrus, table grapes and pomegranates and persimmons.	Refer to the Cryptex® label for detailed application instructions.

Available in: 500 ml, 5 L

Registered, Marketed and Distributed by:



Manufactured by:



Healthy Food and Healthy Environment, for all

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