

InteliGro's Integrated Crop Solution Approach

With the ever-increasing focus on food safety, residue management and environmental stewardship, the need exists for more alternative crop protection solutions.

InteliGro promotes an *Integrated Crop Solutions Approach*, which includes the use of biological solutions in combination with the responsible implementation and positioning of conventional crop protection products.

InteliGro focuses intensively on the expansion and development of their biological solution range, and with their new InteliBio Solution approach, they assist growers with more solutions to produce food with a minimum, to potentially no residue.

Virus-based biocontrol products are available for the control of several key lepidopteran pests (such as codling moth, false codling moth and bollworm) in South Africa. Pest larvae need to ingest the virus for these products to work; this means that some superficial damage may occur. However, there should be no deep damage to fruit if the product is effective. The primary focus of a virus-based programme should thus be on population reduction. Only a few virus particles are needed to ensure that the target larvae die and do not contribute to the next generation.

Virus-based biocontrol products are perfect options for use in IPM-programmes for the following reasons:

1. Virus-based products are highly effective in controlling target

pest populations, especially when applied at the optimal time (i.e. target L1 larvae-stage).

2. Virus-based products are completely safe for the environment, farm workers and consumers.

3. Virus-based products do not have residue limits or withholding periods, making them perfect residue-management tools that can help growers meet the strict requirements of certain markets.

4. They are easy to use as they are compatible with most other pesticides, fungicides, fertilisers etc., provided the pH value of the spray solution is between 5 and 8. The main exception to this rule is copper fungicides, which can negatively impact on virus efficacy.

5. Viruses are extremely target specific and will not have any negative effects on beneficial insects, including bees.

6. Viruses work by a unique mode of action and are perfect resistance management options in IPM-programmes.

7. Virus-based products have a good shelf-life provided they are stored at the appropriate temperature.

With a combination of biological crop protection solutions, including viruses, micro- and macro-organisms, plant extracts, and pheromone-based solutions, InteliGro is in a favourable position to assist growers with sustainable crop protection solutions and residue management.

InteliBio
solutions
with us you are
growing goodness
ZERO
RESIDUE
FOCUS

with us you are
growing
goodness

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For more information about **Bolldex** L8895 (Bollworm specific virus), **Madex** L7950 (Codling Moth specific virus) and **Cryptex** L8037 (False Codling Moth specific virus), please visit Madumbi's website at www.madumbi.co.za or contact the InteliGro Crop Solution Specialist in your area.