NUTRIMAC™/ARTEMAC™ USER GUIDELINE

NUTRIMAC™

Content: Sterilized eggs of *Ephestia kuehniella*
Target: Protein-rich alternative food source for predatory bugs (*Macrolophus/Nesidiocoris/Orius*).
Use: Sprinkle on the release points or on young plants at the propagator. Application on wetted plants prevents the eggs from rolling off.
Advantage: The high nutritional value improves and increases the egg laying.
Packaging:
- ✓ 10g (30ml tube)
- ✓ 50g (100ml flacon)

Storage: Freezer
Viability once sprinkled: 5-7 days

NUTRIMAC PLUS™

Content: Sterilized eggs of *Ephestia kuehniella* mixed with *Artemia salina* cysts
Target: Protein-rich alternative food source for predatory bugs (*Macrolophus/Nesidiocoris/Orius*).
Use: Because its volume is higher than Nutrimac™, you can sprinkle on *Macrolophus/Nesidiocoris* release points but also on surrounding plants within the row. For nursery release, it can be applied on young plants at the nursery or full field in the crop
Application on wetted plants prevents *Ephestia* eggs from rolling off.
Advantage: The mix of these 2 different food sources creates more volume compared with Nutrimac™
Packaging:
- ✓ 60g (125ml flacon) ➞10g *Ephestia* + 50g *Artemia*
- ✓ 300g (500ml flacon) ➞ 50g *Ephestia* + 250g *Artemia*

Storage: Freezer
Viability once sprinkled: Around 5-7 days

ARTEMAC™

Content: *Artemia salina*
Target: Alternative food source for predatory bugs
Use: Disperse all over the crop to improve spreading and to maintain the population of the bugs in the complete greenhouse.
Advantage: The bigger volume of the product facilitates sprinkling on bigger surfaces.
Better longevity of the product.
Packaging:
- ✓ 500g (1Liter pot)

Storage: In a dry place out of the sun
Viability once sprinkled: Around 14 days

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BOOST YOUR PREDATORY BUGS

biobest®
SUSTAINABLE CROP MANAGEMENT

NUTRIMAC™
NUTRIMAC-PLUS™
ARTEMAC™

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NUTRIMAC™/ARTEMAC™ USER GUIDELINE

WHAT IS NUTRIMAC™/NUTRIMAC PLUS™/ARTEMAC™?

Nutrimac™ is based on sterilized eggs of *Ephestia kuehniella*. It is a protein-rich food source, promoting rapid development and active reproduction of predatory bugs such as *Macrolophus/Nesidiocoris/Orius*. This product is mainly used for spot feeding.

Nutrimac Plus™ is based on a mixture of 20% *Ephestia kuehniella* and 80% *Artemia salina* cysts. This alternative food source is created for spot feeding on larger surfaces than Nutrimac™ or for application in nurseries. Due to its higher volume it is easier to sprinkle. Its nutritional value is comparable to Nutrimac™.

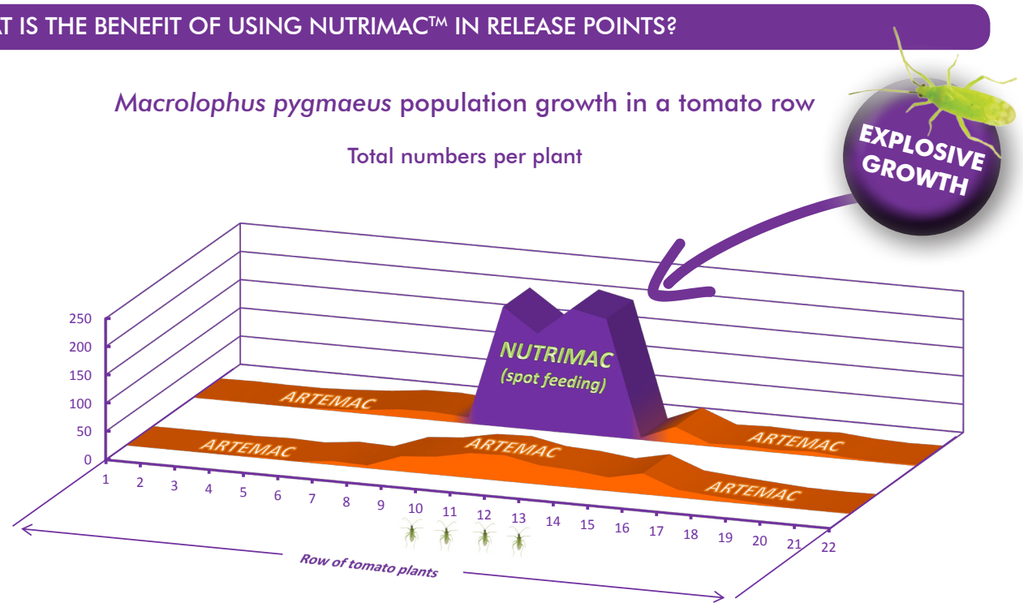
Artemac™ consists of 100% *Artemia salina* cysts. This alternative food source allows full field applications, using devices like Makita (BUB182Z) or Birchmeier Bobby.

Nutrimac™

Nutrimac Plus™

Artemac™

WHAT IS THE BENEFIT OF USING NUTRIMAC™ IN RELEASE POINTS?



By using Nutrimac™ in release points, **3 times more** *Macrolophus* was obtained compared with an Artemac™ only strategy (928 individuals with Nutrimac™ spot feeding versus 319 with Artemac™ only).

NUTRIMAC™/ARTEMAC™ USER GUIDELINE

HOW TO APPLY THE PRODUCTS?

Nutrimac™ & Nutrimac Plus™

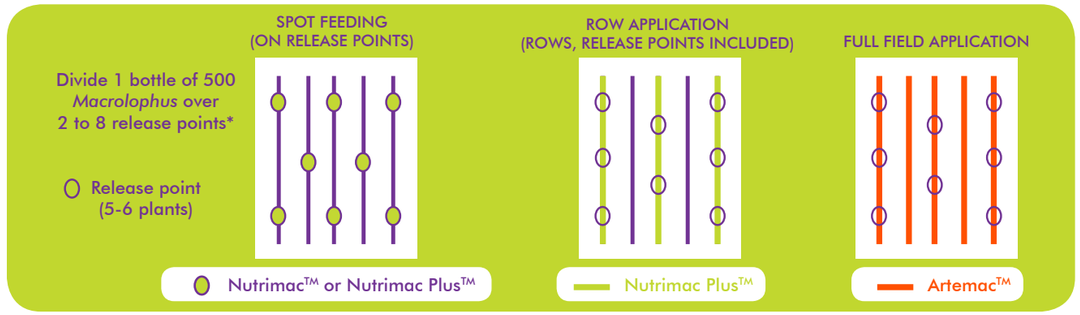
- ✓ Sprinkle the product directly on the plants of the release points. Optimal results will be obtained when plants are wetted slightly before the introduction of the food source.
- ✓ Mark the introduction points with a clear sign and don't prune the leaves of these plants for 7 weeks.

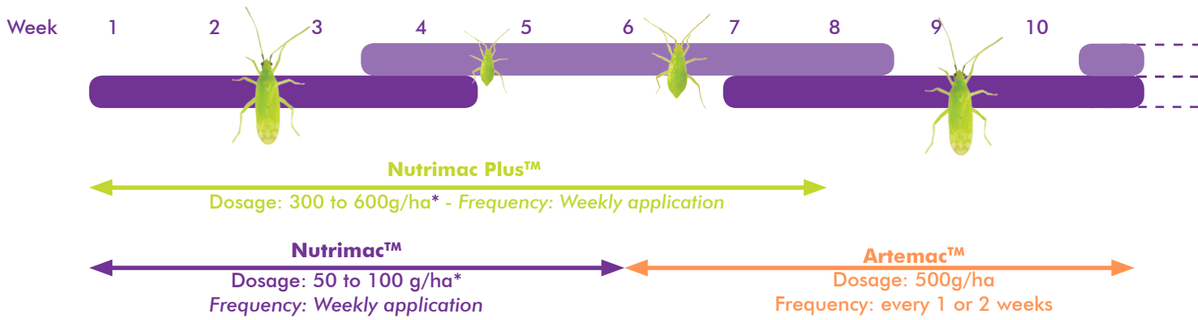
Artemac™ (and Nutrimac Plus™)

- ✓ Blow it on top of the crop using the Makita BUB182Z (battery supported) or Birchmeier Bobby (manual device)

THE OPTIMAL FEEDING STRATEGY FOR MIRID BUGS

- ✓ IN THE NURSERY (*Macrolophus* and *Nesidiocoris*): Apply Nutrimac Plus™ full field
- ✓ ON THE CROP: Example for *Macrolophus pygmaeus* (for *Nesidiocoris* and *Orius*, ask your technical advisor)





* to be adapted depending on the nb of bugs/m² released on the crop