# Sophora flavescens plant extract

## - Biological Insecticide -

Levo SL™ is a broad-spectrum biological insecticide for use on a wide range of crops against a wide spectrum of pests.

Levo SL™ shows excellent efficacy against many species of plant-eating spider mites, yet it is able to discriminate and has a low mortality rate against beneficial insects and mites.

Levo SL™ is a natural derivative from the plant Sophora flavescens, a well-known medicinal plant that's widely used in various pharmaceutical formulations and traditional medicinal remedies.

Levo SL™ has a low residue index; which qualifies Levo SL™ to be used in IPM programs, organic agriculture, and in other cases where low residue products are required.

## Advantages of Levo SL™:

- High efficiency against a wide range of pests
- Pest Resistance Management programs compliant
- Ideal for IPM program due to Levo SL™ safety to beneficial insects and mites, such as Phytoseiulus sp. and bumblebees
- Low MRL Index
- Stimulates crop growth and general well-being, making plants more resilient
- Suitable for application as a foliar pesticide as well as drenching with irrigation water
- Can be used in biological and organic agriculture

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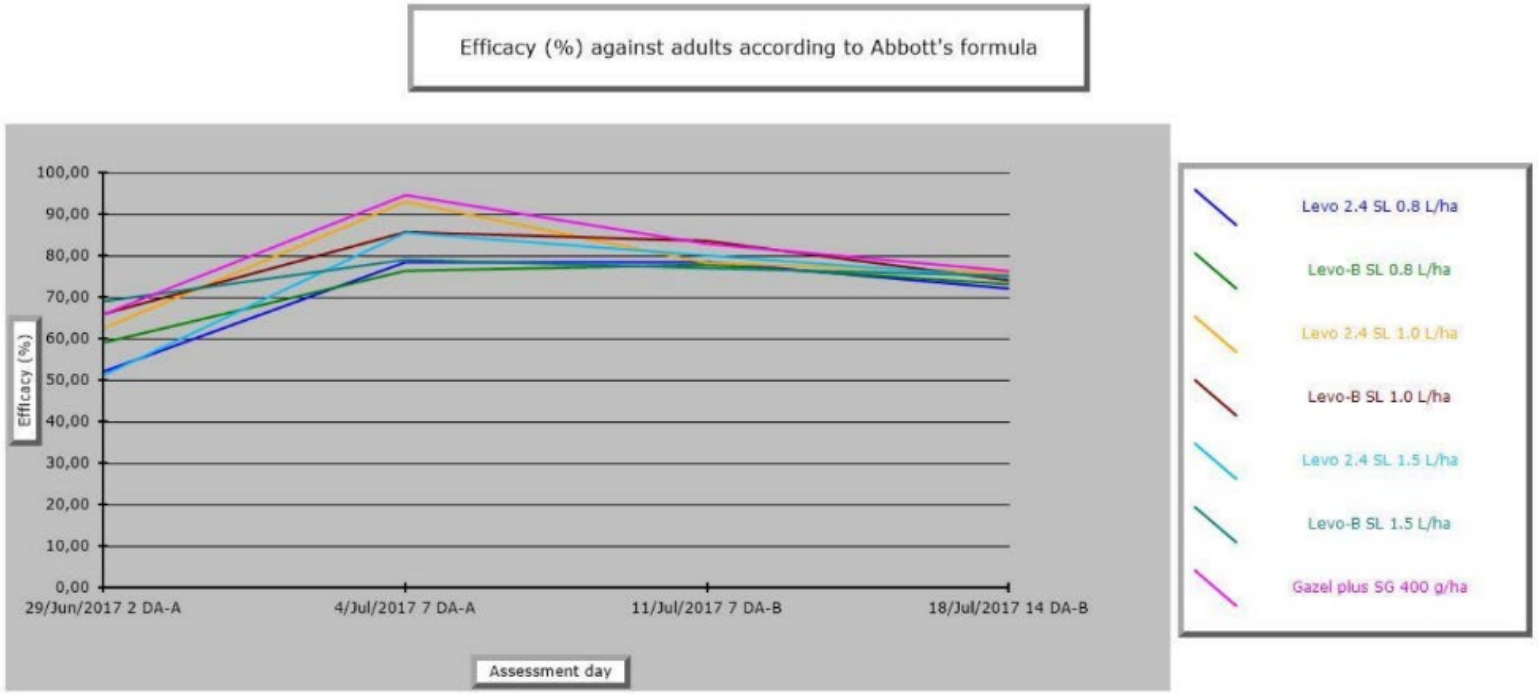
## Trial Procedures:

The first application of the test items was when there was an established population of whiteflies on the tested tomato leaves and the second one was 7 days after the first application.

The number of whitefly larvae and adults was assessed at different time points. At each evaluation, phytotoxicity symptoms of damage to the crop or deformation were also assessed. During the performance of the trial, no phytotoxicity was observed on the crop. Additionally, the test items demonstrated no adverse effects on the incidence of other pests or non-target organisms during the trial.




**Trial results of the performance of Levo SL™ against whiteflies on tomato plants:**

**Location:** Spain
**Date reported:** 2017
**Crop:** Tomato
**Trial site:** Greenhouse
**Objective:** To determine the efficacy of **Levo SL™** for the control of whitefly on tomatoes.

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## Trial Results:

The test items; Levo SL™ and Levo-B SL™, were applied at three different doses on the tomato crop: 0.8 L/ha, 1.0 L/ha, and 1.5 L/ha. Against B. tabaci larvae ,efficacies between 59-84% and 54-81% were obtained for the test items Levo SL™ and Levo-B SL™ at all the doses, respectively. The efficacies against adult whiteflies were 51-93% for Levo SL™ and 59-86% for Levo-B SL™, both at all doses.

Picture 1: General view of the application

Picture 2: View of pest on the tomato leaves

**Ultimately, Levo SL™ demonstrated higher efficacy in the assessments against whitefly larvae and adults, in comparison with other products tested in the trial.**

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