



Ufficio di Staff Accettazione, Refertazione e Sportello dell'Utente

Unità Operativa di Apicoltura

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Subject: Test Reports on effects of Probiotic Probee on beehives health

During Summer 2012, the Beekeeping Unit coordinated the clinical test regarding the effects of the "Probee" over beehives strength, of which the composition is based on probiotics, developed by the biologist Dr. Stefano Trovò.

The testing period began on 4th May 2012, and ended on 6th August 2012.

The experimental protocol reports as follows:

Treated group: 10(ten) beehives

Day 0: Assessment of the hives strength by the Liebfeld method (adult bees, brood and eggs) and probiotic treatment.

Day 15: probiotic treatment

Day 30: probiotic treatment

Day 45: probiotic treatment

Then by monthly schedule until end of the trial: probiotic treatment.

Way of administration of the product: about 50-100 ml of product were administered in the hive after removing the roof and top, without removing the frames also wetting the bees.

For the treatment application, a simple dispensing pump was used to spray the product.

Control group (10 hives)

Day 0 and to the end of tests: evaluations of the hives, in particular through the Liebfeld estimation of the families (adult bees, brood, not operculated brood, eggs).

Results

At the end of trial, it was possible to observe in the treated group respect to the untreated group:

An increase of adult bees, about 1.7 times more than in the control group;

An increase of brood, which resulted about 3.6 times more than in the control group;

An increase of uncapped brood which resulted about 6.3 times more than in the control group;

An increase of eggs, which resulted about 3 times more than in the control group.

Overall, the increase of the amount of adult bees, brood, uncapped brood and eggs obtained with use of probiotics shows the positive effects on the strength of the treated hives instead of the untreated hives.

Dr. Giovanni Formato