



PROBEE41®

**AROMATIC
HERBAL
SOLUTION
(PREMIX)**



For Healthy Bees And Honey Without Residue

The integrated control methods used in recent years against Varroa reduces the use of synthetic pyrethroids and brings up the use of various genetic, biological and herbal products. Especially nowadays as the organic agriculture continues to gain more ground and popularity, and considering the various problems faced by the agricultural products in foreign markets, it is possible to see that the misapplications in beekeeping sector is also effective in that regard. As a result of the comparison of effectiveness of herbal, organic acid and biotechnical applications, chemical applications, the influence levels of the volatile fatty acids extracted from aromatic plants which could be an alternative for the chemical applications recommended for the national beekeepers in their fight with Varroa.



THE BENEFITS of PROBEE 41

- 1• No toxicological adversity was found.
- 2• Bee mobility was increased.
- 3• No bee aggression due to stress was observed during the hive opening and application. A calm mobility was observed.
- 4• It was detected that the varroa over the bees have fallen to the floor and the drawers of the hive. This was an extra improvement.
- 5• It was found out that the beekeepers do not need any protective gas masks during the application, and the application can be made easily and practically.
- 6• It was observed that during the application, bees did not exhibit any

adverse behavior like abandoning the hive or temporary paralysis and the product had no harmful effect on the queen, unlike other chemical and herbal methods of fighting. In the contrary, even in lower temperatures (+10°C), the bees exhibited no nervous behavior. Applications below the temperature of +10°C have been made by spraying the product through the bee entrance holes.

- 7• The hydrolats and etheric fatty acids in the structure of the herbal solution accelerated the metabolism of the bees through natural reactions and thus, a rapid urge to clean was observed.
- 8• No residue was left in terms of food safety. Even in frequent use, no negative effects have been observed.
- 9• No rotting of the honeycomb due to the effect of moisture was observed.
- 10• As no chemicals are present, no bad odor was detected in the hive.
- 11• As one of the most prominent feature of the PROBEE41, the queen has gained more strength and performance and bee population in the hive has increased exponentially.
- 12• No disease was observed in the hive throughout the trial application,

which was deducted to be a result of the extract and fatty acid mixture applied.

- 13• Even though the trial was made on colonies that belong to the sister queens born out of the main queen mother's eggs, these bees were fertilized through controlled and artificial insemination. Thus a variation of worker bees is inevitable. Also, the product containing volatile herbal substances which was added to the syrup included natural compounds which are non-foreign to bees, thus positively influencing the worker bees' nectar collecting behaviors.
- 14• The honey yield was increased and thus the expectations of the beekeepers were realized.

As a result of the findings, it was determined that the product can be applied in various methods in different timings, according to specific strains of bees.

HEALTHY BEES COLLECT NECTAR AND PRODUCE HONEY MAXIMUM EFFICIENCY AND HIGH QUALITY IN HONEY PRODUCTION



**Healthy
Bee
Collects
Nectar
And
Produces
Honey**



**Probbee41
allows
maximum
production
with high
quality.**



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DISTRIBUTOR:

APPLICATION WITHIN THE SYRUP

This application requires the mixing of **PROBEE41** into the syrup. Each time you give syrup to your bees, you should add 5



grams of **PROBEE41** into 1 liter of syrup. A beekeeper with 10 hives, if he is preparing 10 liters of syrup, he will need 50 grams of **PROBEE41** to mix into the syrup. The amount of syrup will increase as the amount of hives increases. A beekeeper with 50 hives, if he is preparing 50 liters of syrup, he will need 250 grams of **PROBEE41**.

100 liters of syrup will require 500 grams of **PROBEE41**. The dates and times of syrup provision could differ from one beekeeper to another. **For example**, beekeepers that provide syrup for their bees in every 3 days or 5 days shall mix **PROBEE41** into their syrups according to the amount of the syrup they prepared. It is also possible to make a spraying application in the same day of syrup provision. As an example, the mixture of **PROBEE41** into the syrup and an additional spraying application can be made in the same day. You can apply the two methods at the same day and you can make the second spraying application 15 days later. The provision of syrup and cake might exhibit differences according to the locations or the current status of the bees. Timely provisions of cake and syrup ensure that the bees are well nourished.

APPLICATION WITHIN CAKE



This application is made by applying **PROBEE41** into the cake preparations. 7 grams of **PROBEE41** shall be added into 1 kilogram of cake. 100 kilograms of cake required 700 grams of **PROBEE41**. When applied into commercial cakes, 7 grams of **PROBEE41** shall be injected into 1 kilogram of premade cake. The cake shall then be kneaded by hand and applied into the hive. Even though the cake provisioning times might differ in between locations, it would be beneficial to add **PROBEE41** into the cake whenever the application is made.

APPLICATION BY SPRAYING

Preparation of the solution

The solution is prepared by mixing 1 part of **PROBEE41** into 3 parts of water. For example, beekeepers with 10 to 30 hives can mix 1 glass of **PROBEE41** into 3 glasses of water. You can prepare this mixture in the spraying



apparatus. Into the spraying apparatus, you can add 1 glass of **PROBEE41** and 3 glasses of water, and shake the mixture, and spray it over the bees. If there are more than 30 hives, half liter of **PROBEE41** shall be mixed with 1.5 liters of water, and a total of 2 liters of mixture can be obtained. The application can be made by mixing the solution well and spraying over the bees. Spraying application shall be made throughout the year as the bees are in the flight period, every 15 days, until the winterization.

This product does not leave any stain in the honey, and it is highly beneficial to apply it during the time of honey flow. The problem of **VARROA** can be contained this way. In cases that you encounter foul brood among your bees, instead of water, you can mix 1 part of **PROBEE41** into 3 parts of syrup and apply it into the hive by taking out the frames and spraying on both sides of them for 4 consecutive days. After 4 days of application, the problems should be gone.

For locations with longer winters, the application is the same whenever the bees are in flight period.

The precautions are very important as you start to use **PROBEE41**.

In order to fully benefit from **PROBEE41**, the instructions shall be fully adhered to. Even though the methods of application are the same for all regions, the frequency might change according to the climatic conditions (the duration the bees are in flight period). In Aegean and Mediterranean regions, the bees never form winter clusters. In these regions, **PROBEE41** can be used throughout the year. According to climatic conditions, in daytime when the temperature is over 14°C, spraying can be done onto the bees by separating the frames. This is one of the most effective methods.

Spraying shall also be done every 15 days during the flight period. Provided that the applications are done in the right frequency, your bees will be strong and healthy, and your honey yield will be at least twice the normal amount.

