



# Offer for bees





### Freeze-dried probiotics for bees

#### Composition per 125 mg:

Sodium phosphate	55.74 mg
Potassium phosphate	39.04 mg
Lactose	20 mg
Milk proteins (lactalbumin hydrolysate)	20 mg
Gelatin	10 mg
Sodium chloride	6.8 mg
Potassium chloride	0.4 mg

#### Additives:

Lactic acid fermentation bacteria – *Lactobacillus*  $\geq 1 \times 10^8$  CFU/vial

Aromas 2b: Sodium glutamate 20 mg/125 mg

#### Analytical composition:

total protein 226g/kg, raw fibre 4.12g/kg, raw ash 516g/kg, raw fat - not detected, sodium 109g/kg, phosphorus 86.6g/kg

#### Properties and indications:

Bacteria from the genus *Lactobacillus* are the major component of the natural gut microbiota of bees in the summer season. Microorganisms contained in the product were isolated from healthy insects belonging to very strong bee families, and selected due to their distinctive probiotic properties and safety. They are capable of colonizing the bee intestine, supporting the digestive processes, and through acidification of their habitats they help protect the bees against infection and development of pathogenic microbes, such as: *Paenibacillus larvae* or *Nosema ceranae*.

## Worthy opponent for bacteria and fungi



## Apiflora

- *Lactobacillus* genus is capable of colonizing the intestine, thus supporting the digestive processes
- Strengthens the immune system to protect bees against infections and development of pathogens such as *Paenibacillus larvae* or *Nosema ceranae*
- Contributes to extension of bee lifespan and enhances bee colony well-being

Use of the probiotic improves the condition of bee families and contributes to extension of bee lifespan. Supplementation with the probiotic is especially important in the period when bees reduce their contact with the outside environment and naturally-occurring probiotic bacteria.

#### Directions for use:

Using a disposable syringe, fill 3/4 of the vial with water at room temperature, mix thoroughly until the freeze-dried material is dissolved. Use the obtained suspension in accordance with the intended purpose:

#### As an additive to sugar syrup used in supplemental spring, summer and autumn feeding.

Mix the content of one vial with sugar syrup cooled down to room temperature, obtained by dissolving 2 kg of sugar in 5 litres of water.

Do not use hot syrup or syrup with higher sugar content, as it has negative effect on microbial viability. Portion the obtained syrup amount into feeders intended for 5 bee families. Repeat the procedure after one week. Syrup prepared in that manner can also be applied directly to the frames, by pouring the syrup onto passageways, 5-10 ml of the syrup per passageway.

#### As an additive to drinking water for bees.

Dissolve the content of one vial in 10 litres of drinking water for bees.

Apiflora can be repeatedly administered during a year.

Apiflora contains microorganisms comprising the natural gut microbiota of bees; therefore it can be used independently of other products enhancing bee health.

**Storage:** Store at 2-8°C. During shelf life, freeze-dried probiotics can be stored for 1 month at 15-25°C. Once dissolved, use immediately.

One cardboard box contains 4 vials, each containing 125 mg of the product.

**Expiry date:** 18 months

Veterinary identification number:  $\alpha$  PL 0614003p

2019-02-18

### Apiflora

was developed with the assistance of scientific units of Maria Curie-Skłodowska University and University of Life Sciences in Lublin.



#### Marketing authorisation holder

Biowet Puławy Ltd, H. Arciucha 2 str., 24-100 Puławy, Poland,  
e-mail: sekretariat@biowet.pl, www.biowet.pl





Immunity stimulating product preventing infections with *Nosema apis* and *Nosema ceranae*

### Ingredients in 1000 ml:

4.1.3. Sucrose – 500 g

Additives:

2.b. Ginseng infusion – 50 g in 1000 ml

1.a. Lactic acid – 8.3 ml in 1000 ml

Moisture: 45 %

### Analytical constituents:

Total protein 226 g/kg  $\pm$  8 g/kg, Crude fibre 4.12 g/kg  $\pm$  2.0 g/kg, Crude ash 516 g/kg  $\pm$  31 g/kg, Phosphorus 86.6 g/kg  $\pm$  5.0 g/kg

### Indications

Apistym is recommended to administer in the beehive to enhance bees' immunity. This supplementary feed reduces the spread of infection with *Nosema apis* and *Nosema ceranae*. Application of this supplementary feed during infections, especially with *Nosema apis* and *Nosema ceranae*, reduces pathogen contamination.

## Honey bee health improvement



## Apistym

- Made from natural ingredients, no withdrawal period for honey
- Boosts resistance of bee colonies to diseases, especially to *Nosema* disease
- Accelerates bee development
- Autumn supplementary feeding improves bee colony survival rate

### Characteristics

Apistym contains ginseng infusion which helps to increase phenol oxidase level (enzyme taking part in immune response), enhancing colony's immunity and vitality. This helps bees to fight pathogens more effectively. Apistym administered in autumn feeding increases colony's survivability in winter and in spring – accelerates its development.

### Posology and methods of administration

#### Shake before use!

Preparing Apistym with sugar syrup solution. Autumn feeding – 4 ml of Apistym per 1 litre of sugar syrup. Sprinkling beeways, stimulative feeding – 20 ml of Apistym per 1 litre of sugar syrup. Syrup temperature should not exceed 50°C.

#### Autumn usage

Apistym should be administered with sugar syrup solution or prepared bee feed in a dose of 4 ml of the product per 1 litre of syrup. Sugar syrup or feed prepared with Apistym should be administered in colonies during autumn feeding. Adjust feed amount to the colony's strength. Recommended Apistym's dosage per one colony: 40 ml (10 litres of syrup). In case of administering a smaller dosage a supplementary, double sprinkling (at an interval of 7-10 days) of beeways is recommended (solution of Apistym in sugar syrup – 20 ml of the product per 1 litre, 5-10 ml per beeway).

#### Spring and summer usage

Sprinkle beeways with a solution of Apistym in sugar syrup (20 ml of the product per 1 litre) twice – 5-10 ml per beeway (at an interval of 7-10 days). A solution of Apistym for sprinkling beeways might be administered during stimulative feeding – 0.5-1 litre per colony. Use this dosage during every stimulative feeding.

Apistym might also be administered in a sugar cake – 4 ml of the product per 1 kg of cake per colony.

Once opened use immediately. If the whole product was not used, the opened bottle can be stored in the fridge no longer than 14 days.

Apistym was developed in co-operation with research institutes of University of Life Sciences in Lublin, Maria Curie Skłodowska University in Lublin and Jagiellonian University in Cracow. The product composition is patented and its properties were confirmed by laboratory testing and apary use.

**Bottle volume:** 200 ml

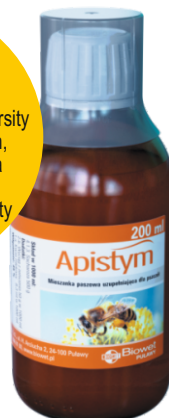
**Expiry date** 12 months

**Storage:** Store in a cool and dry place.

Veterinary identification number:  $\alpha$  PL0614003p

2018-11-19

**Apistym**  
was developed  
in co-operation with  
research institutes of University  
of Life Sciences in Lublin,  
Maria Curie Skłodowska  
University in Lublin  
and Jagiellonian University  
in Cracow.



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e-mail: sekretariat@biowet.pl, www.biowet.pl





### Fumigation tablets

Amitraz 12.5 mg/tablet

#### Active substance and excipient content

Amitraz 12.5 mg/tablet

#### Therapeutic indications

Diagnosing and combating varroosis caused by *Varroa destructor*.

#### Amount to be administered per species, method and route of administration

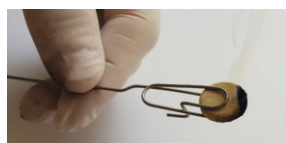
One tablet contains one therapeutic dose sufficient for a single fumigation of a honey bee colony.

Hold a tablet with the tongs and set it on fire, blowing off any possibly emerging flame. Place the smouldering tablet on a narrow (3-4 cm) strip of thick metal netting or specially bent wire feeder, enabling access of air to the tablet. Introduce the smouldering tablet together with the netting into the hive through the entrance, and place it on the bottom board beneath the frames. Cover the entrance for 20 minutes. Next, uncover the entrance and check if the tablet has burnt completely. If not, repeat the procedure. While diagnosing varroosis, adhere to the above procedure, after placing a sheet of paper covered with vegetable fat at the bottom board. Remove the sheet of paper and check for presence of the mites on it an hour after fumigation.

## How to protect bees against varroosis?



### 1 tablet / single fumigation of a honey bee colony



# 1

One tablet contains one therapeutic dose of amitraz sufficient for a single fumigation of a honey bee colony. Hold a tablet with a specially bent wire feeder and set it on fire, blowing off any possibly emerging flame.



# 2

Introduce the smouldering tablet into the hive through the entrance, and place it on the bottom board beneath the frames. Use of the tablets in polystyrene beehives requires previous putting of inflammable pads, otherwise the smouldering tablet will damage the bottom board. (1)



# 3

In hives with polystyrene components, burn the tablets on a strip of metal netting. Place the smouldering tablet on a narrow (3-4 cm) strip of thick metal mesh. Introduce the strip with the smouldering tablet into the hive, and place it on the bottom board beneath the frames.



# 4

Cover the entrance for 20 minutes. Next, uncover the entrance and check if the tablet has burnt completely. If not, repeat the procedure.



# 5

Best results in varroosis treatment are obtained if fumigation is applied  
 - twice in **spring**  
 - two or three times in **autumn** at intervals of 4-6 days when there is the smallest amount of encrusted brood in the hive.

#### Literature:

1) Chorbiński, P.: *Eradicating Varroa mite in bees 2nd extended edition*, p. 50



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### Fumigation tablets

Amitraz 12.5 mg/tablet

#### Instructions for use

Apiwarol is exclusively effective on *Varroa destructor* mite attached to the body of the bee. It does not destroy the mites and its developmental forms found on encrusted brood. The best results in varroosis treatment are obtained if fumigation is applied twice in spring and two or three times in autumn at 4-6 day intervals, when there is the smallest amount of encrusted brood in the hive. In the honey production period, varroosis should be fought by cutting off the encrusted drone brood.

Fumigation should be performed in the evening, after bees have completed their flight. As amitraz is likely to penetrate into honey, autumn treatment should be performed after stock of honey intended for human consumption is removed from the hive.

#### Contraindications

Do not use during production of honey intended for human consumption. Do not conduct fumigation at the temperature below +10°C.

Do not use in case of hypersensitivity to the active substance or to any of the excipients.

#### Adverse reactions

Improper use of the product may lead to brood dying.

Fumigation may cause bee agitation.

Any adverse reactions emerged after administration of the product or any observed symptoms not listed in the leaflet (including symptoms reported in humans following exposure to the product) should be reported to the competent veterinarian, Marketing Authorization Holder or the Office for Registration of Medicinal Products, Medical Devices and Biocidal Products. The report form should be downloaded from <http://www.urpl.gov.pl> (Department of Veterinary Medicinal Products).

**Withdrawal period** Honey – 5 days. Do not use during production of honey intended for human consumption.

#### Special precautions for storage

Keep out of the sight and reach of children. Store below 25°C. Store in a tightly closed container to protect from light and humidity. Do not use this veterinary medicinal product after the use-by date given on the label. Shelf life after first opening the packaging – 24 days.

#### Special warnings

Special precautions to be taken by the person administering the veterinary medicinal product to animals:

Effect of Amitraz on human body has not been fully recognised. Wear a protective mask during the procedure to avoid smoke inhalation. In case of observing any alarming symptoms following exposure to the product, such as vomiting, cardiac arrhythmia or any nervous system disorders, immediately seek doctor assistance and present the doctor with the information leaflet or package.

People with known hypersensitivity to any ingredient of Apiwarol should avoid contact with the veterinary medicinal product.

Do not eat, drink or smoke during the procedure.

Wash hands after the procedure is complete.

Interaction with other medicinal products and other forms of interaction: Unknown

Overdose (symptoms, emergency procedures, antidotes):

Administration (burning in the hive) of a larger number of tablets than recommended may cause excessive agitation of bees.

Pharmaceutical incompatibilities:

In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products.

**Special precautions for the disposal of unused veterinary medicinal product or waste materials derived from the use of such products**

Amitraz is toxic for fish, therefore attention must be paid to prevent disposal of the product to any bodies of water. Medicines should not be disposed of via wastewater or household waste.

Ask your veterinary surgeon how to dispose of medicines no longer required. These measures should help to protect the environment.

**Package size** 25 tablets.

**Shelf life** 1 year

**For animal treatment only. Subject to medical prescription – prescription drug. To be administered under veterinary supervision.**

Marketing authorisation 740/99

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Biowet Puławy Ltd, H. Arciucha 2 str., 24-100 Puławy, Poland,  
e-mail: sekretariat@biowet.pl, www.biowet.pl





## Strips for placing in honey bee hives

Amitraz 500 mg/strip

### Active substance and excipient content

1 strip contains:

#### Active substance:

Amitraz 500 mg

#### Therapeutic indications

Combating varroosis in bees.

#### Amount to be administered per species, route and method of administration

Product for hanging in bee hives in a dose: 2 strips per hive.

#### Instructions for use

## How to protect bees against varroosis?



### 2 strips/1 honey bee family



# 1

Place Biowar strips in aisles with the highest bee activity, as these are locations with the largest amount of parasites. By introducing a stick into a specially prepared hole in each strip, we can easily hang the strip in the frame-separating aisles.



# 2

Expand the aisles before hanging the strips to provide free bee access from both sides. In hives with side bars between the frames, this may be done by placing two bars per one frame-separating aisle.



# 3

In vertical hives, hang the strips at a lower level to locate them in the area of the highest bee activity. If bee activity inside the hive is away from the strips, change strip location to where the bees swarm the most. Do not hang the strips in very narrow aisles or in the nest peripheries, as they are not densely populated by the bees. (1)



# 4

Leave the strips in a hive for 8 weeks, then remove. It is recommended to conduct treatment in all hives of a given apiary at the same time. Use the strips immediately after opening. Do not re-use the strips. Do not use the product after the use-by date.



# 5

Biowar is intended for hanging in bee hives in a dose: **2 strips per 1 honey bee colony.**  
**Spring treatment** – before the first commercial nectar  
**Autumn treatment** – after the final harvest of honey (end of summer/autumn).

#### Literature:

1) Chorbiński, P.: *Eradicating Varroa mite in bees* 2nd extended edition, p. 51



Biowar strips are vacuum-packed

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Biowet Puławy Ltd, H. Arciucha 2 str., 24-100 Puławy, Poland,  
 e-mail: sekretariat@biowet.pl, www.biowet.pl





### Strips for placing in honey bee hives

#### Amitraz 500 mg/strip

Place strips in frame-separating aisles with the highest bee activity. Hang strips to provide free bee access from both sides, which is done by maintaining proper distance between the frames. Leave the strips in a hive for 6 weeks, then remove. If bee activity inside the hive is away from the strips, change strip location to place them inside the bee colony, and before removing, leave the strips for another 2 weeks. The strips should be removed after the maximum of 8 weeks. Do not re-use the strips. It is recommended to conduct treatment in all hives at the same time. Recommended period of treatment: after the final honey extraction (end of summer/autumn) and in spring before the first pollen harvest. Comply with recommended treatment periods and amounts to be administered.

#### Contraindications

None

#### Adverse reactions

Unknown.

Any adverse reactions emerged after administration of the product or any observed symptoms not listed in the leaflet (including symptoms reported in humans following exposure to the product) should be reported to the competent veterinarian, Marketing Authorization Holder or the Office for Registration of Medicinal Products, Medical Devices and Biocidal Products. The report form should be downloaded from <http://www.urpl.gov.pl> (Department of Veterinary Medicinal Products).

#### Withdrawal period

Honey – zero days.

Do not use during production of honey intended for human consumption.

#### Special precautions for storage

Keep out of the sight and reach of children. Store below 25°C, in the original, tightly closed package. Shelf life after first opening the immediate packaging: use up immediately. Do not use this veterinary medicinal product after the use-by date given on the label.

#### Special precautions

##### Special warnings for each target species:

All colonies in the hive must be treated at the same time.

##### Special precautions to be taken by the person administering the veterinary medicinal product to animals:

Wear protective gloves when handling the strips. Do not eat, drink, or smoke while applying the strips. While using the product, do not allow contact with skin and eyes. After procedure is complete, wash hands with warm water and soap. Do not allow contact of the product with food.

##### Interaction with other medicinal products and other forms of interaction:

Amitraz toxicity increases in the presence of copper, and its efficacy decreases in the presence of piperonyl butoxide. Avoid using these substances simultaneously with amitraz.

##### Overdose (symptoms, emergency procedures, antidotes):

While applying doses 5-times higher than recommended for the period of 6 weeks, no adverse reactions were observed.

Pharmaceutical incompatibilities: Unknown

Special precautions for the disposal of unused veterinary medicinal product or waste materials derived from the use of such products

Unused veterinary medicinal product or waste materials derived from the use of such products such be disposed of in accordance with applicable regulations. Amitraz is toxic for fish, therefore attention must be paid to prevent disposal of the product to bodies of water or water currents.

#### Shelf life 18 months

Type and content of immediate packaging

Cardboard box containing 10 strips placed inside in a PET/Aluminum/PE sachet.

#### For animal treatment only

Subject to medical prescription – prescription drug.

To be administered under veterinary supervision

Marketing Authorization no.: 2085/11

2016-06-08 SPC



Biowar strips are vacuum-packed

#### Marketing authorisation holder

Biowet Puławy Ltd, H. Arciucha 2 str., 24-100 Puławy, Poland,  
e-mail: sekretariat@biowet.pl, www.biowet.pl





**Biowet Puławy Sp. z o.o.**

ul. H. Arciucha 2, 24-100 Puławy, tel./fax 81 886 33 53

e-mail: [export@biowet.pl](mailto:export@biowet.pl)

**[www.biowet.pl](http://www.biowet.pl)**