

# Api-Bioxal

**Acaricide soluble powder based on Oxalic Acid against Varroa**

**Api-Bioxal** is an acaricide soluble powder based on **oxalic acid** for the fight against Varroa.

OXALIC ACID is one of the most common and best natural acaricides used against varroa

**Api-Bioxal** is authorised in Italy like Veterinary Medicine.

The product could be used as a treatment among others within an Integrated **Pest Management program**;

**API LIFE VAR**<sup>®</sup> (Thymol, Menthol, Eucaliptus, Menthol) and **APIBIOXAL** used in different periods of the year assure an excellent control of the varroa infestation during all the year.

## PHARMACEUTICAL FORM

Acaricide soluble powder

100 g of product contains 88,60 g of **Oxalic Acid Dihydrate** (Active substance)

## PERIOD OF USE

The Oxalic acid works best on colonies that are broodless.

The presence of brood may reduce noticeably the efficacy of API-Bioxal.

## ADVICE FOR USE

- To obtain a higher efficacy, use the product in colonies broodless
- Do the treatments without supers.
- All colonies in the same apiary should be treated simultaneously to avoid reinfestations.
- When handling powder product (both during vaporisation phase and pre-treatment phases) wear protective mask type FFP2, gloves and protective glasses.
- Do not use simultaneously with other acaricides.
- Possible overdose can trouble the future colonies development.

## SAFE PRODUCT

Oxalic acid, the active ingredient of API-Bioxal, is a natural honey constituent and its concentration in honey depends on the botanical source. No increase of oxalic acid residues over the natural content of honey is to be expected as a consequence of proper API-Bioxal administration.

Oxalic acid is NOT subjected to a maximum residue limit (MRL) in the honey (Reg. UE n° 37/2010 Tabella 1)

## WITHDRAWAL PERIOD

Honey: Zero days

## ORGANIC BEEKEEPING

**Api-Bioxal** is allowed in organic beekeeping (Reg. CEE 2092/91 and following modifications).

## EFFECTIVENESS

**Api-Bioxal** ensures HIGH EFFECTIVENESS (see graphics) and GOOD TOLERABILITY for bees

## POSOLOGY AND METHOD OF ADMINISTRATION

### **A) Posology and method of administration by trickling:**

Open the **bag** of API-Bioxal and dissolve all the powder in the indicated amount of syrup (water and sucrose in a 1:1 ratio).

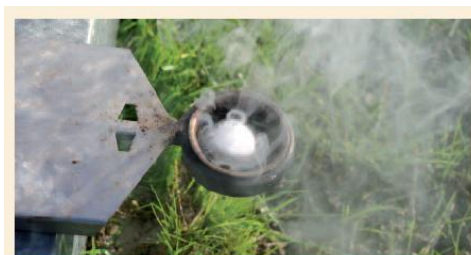
- API-Bioxal bag 35g: dissolve in 500 ml of syrup.
- API-Bioxal bag 175g: dissolve in 2.5 l of syrup.
- API-Bioxal bag 350g: dissolve in 5.0 l of syrup.



The treatment should be made in a single administration, dropping the solution on the frames with a syringe, ***in dose of 5 ml*** for frame full of bees.

### **B) Posology and method of administration by vaporisation**

- Fill with 2.3 g of API-Bioxal the pan of the vaporizer
- Seal the entrance of the hive to avoid escape of bees and smoke.
- Power the vaporizer following the manufacturer's directions for about 3 minutes and keep the hive shut for another 10 minutes.
- Cool down and clean the vaporizer after every use

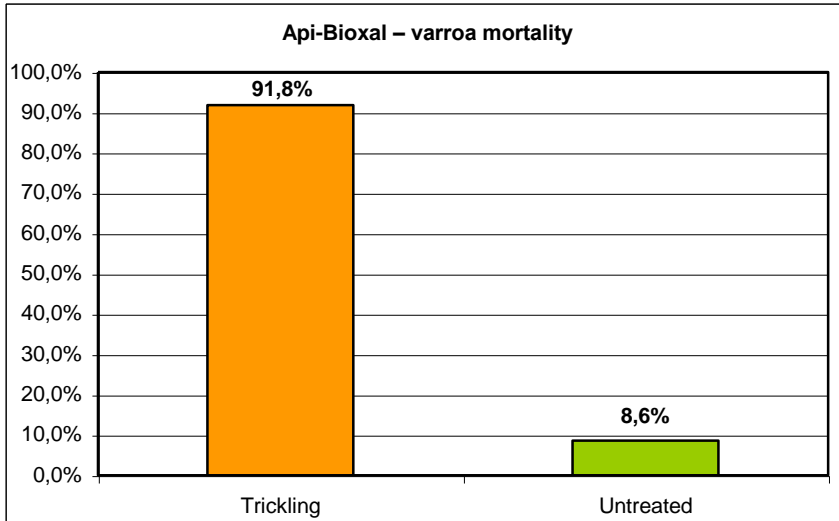


## EFFECTIVENESS

### Field Trial – Summer 2010 Administration by trickling

CRA-API Bologna

Dr Antonio Nanetti – Dr Andrea Besana – Dr. Roberto Romanelli

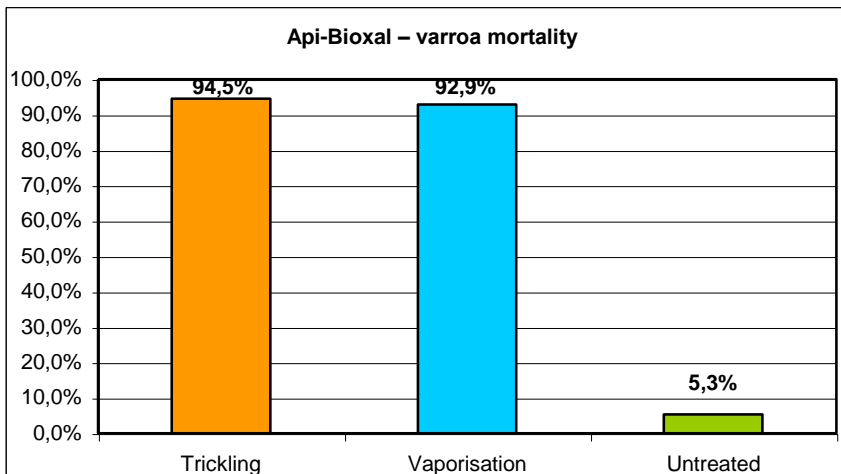


Field trial - winter 2010

### Administration by vaporisation and trickling

CRA-API Bologna

Dr Antonio Nanetti – Dr Andrea Besana – Dr.ssa Elisa Gianessi



## ADVANTAGES

- ▶ High quality standard
- ▶ Full safety for the consumer, bees and beehive products
- ▶ High EFFECTIVENESS AND TOLERABILITY
- ▶ Allowed in organic beekeeping
- ▶ Powder easily soluble in sugar solution at room temperature
- ▶ Double possible ways of administration (by trickling and vaporisation)

## PACKAGING



- API-Bioxal bag 35g (for the treatment of 10 beehives)\*
- API-Bioxal bag 175g (for the treatment of 50 beehives)\*
- API-Bioxal bag 350g (for the treatment of 100 beehives)\*

\*considering 10 frames full of bees (administration by trickling)