

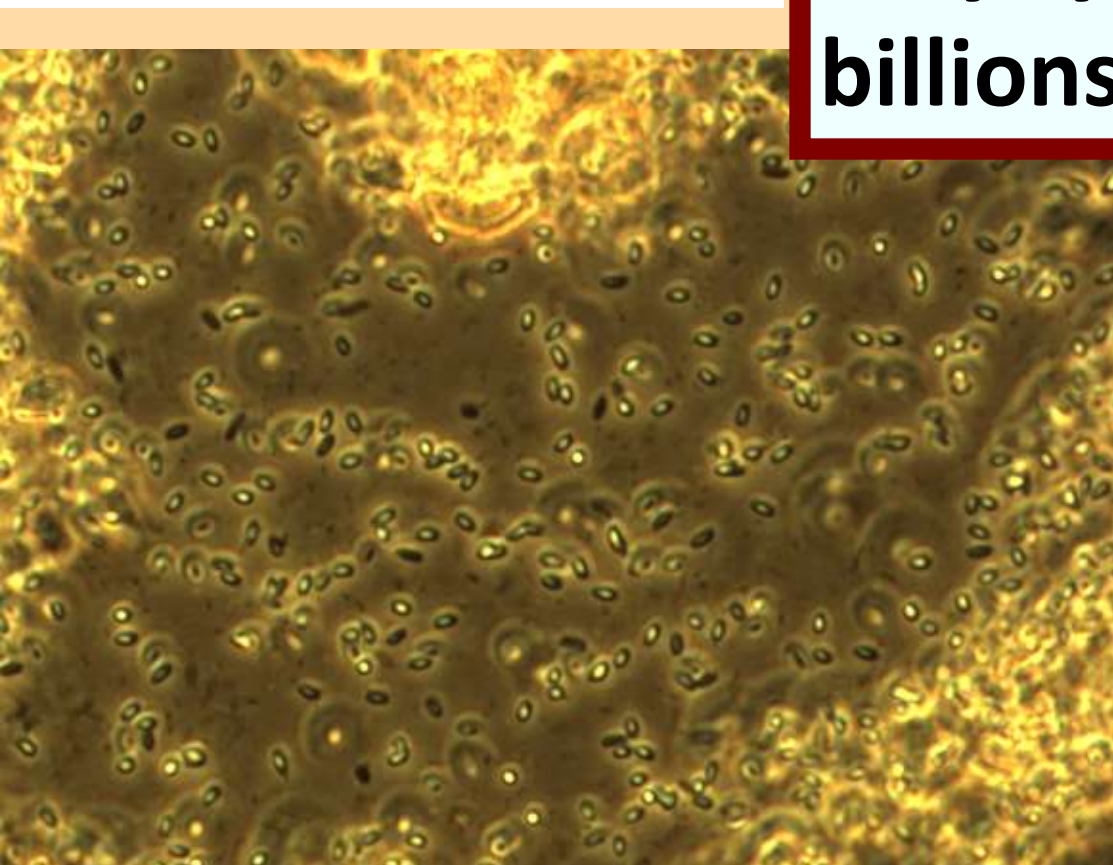
Honey-B-Healthy® Brood Drench



We found our first *Nosema ceranae* in late July, 2008 near Cumberland, MD, in ten hives. Declining bees and spores on slides made from single or macerated bee abdomens (using a mortar and pestle) were the only symptoms. Many individual bees had millions, billions or trillions of spores!



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Nosema ceranae! This single bee had about 1 trillion spores!

A drench is needed. The bees will not take syrup with 4 teaspoons of HBH per quart [ca. 20 ml per liter.] Nor will they take any syrup during a honey flow. In order to get this strong dose of HBH into cells in the brood nest, you need to pour or spray it directly onto the bees and frames in the brood nest, below the queen excluder. Be sure you have a solid bottom board or aluminum foil to catch the drips. Bees are compelled to clean up the syrup – in about 15 minutes. They feed it to each other and store it in cells in the brood nest, where it will be fed to developing brood and emerging bees, augmenting their immunity to pathogens.

We applied the drench to the brood nest, below the queen excluder: approximately one cup (8 ozs, or 237 ml) was applied to each hive in 1:2 sugar:water sucrose syrup, We added 4 teaspoons of HBH per quart (ca 20ml/liter). We applied one cup to each brood nest per week for three weeks in succession. At the same time, we fed the bees 10 ml of HBH per liter of 1:1 syrup using inverted field buckets on plastic racks.



A month after the last treatment, none of the bees in treated brood nests [yellow Italians] had spores, About 8 robbers [black in color] from unknown hives were collected from the entrance; 75% of these had spores.

The next spring, April, 2009, there were no robbers. No spores were found in any of the 6 surviving hives. Had we found the infestation earlier, we could have saved all 10 hives.

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