

## Fumagilin-B and Nosema in Bees

Nosema apis in bees is very well controlled using Fumagilin-B as directed in our insert.

In the fall, after all honey supers have been removed, apply medicated syrup (1:1 or 2:1) at a rate of 190mg fumagillin activity per colony.

For example, dissolve 454g of Fumagilin-B in 100 US gallons of sugar syrup and feed each colony 2 US gallons (treats 50 colonies), or dissolve 454g of Fumagilin-B in 50 US gallons of sugar syrup and feed each colony 1 US gallon (treats 50 colonies).

In the spring, feed medicated syrup (1:1 or 2:1) at a rate of 95mg fumagillin activity per colony.

For example, dissolve 454g of Fumagilin-B in 100 US gallon of sugar syrup and feed each colony 1 US gallon (treats 100 colonies) or dissolve 454g of Fumagilin-B in 50 US gallons of sugar syrup and feed each colony  $\frac{1}{2}$  US gallon (treats 100 colonies).

**Nosema ceranae.** The best treatment method for Nosema ceranae or Nosema apis in conjunction with Nosema ceranae has not yet been established.

Preliminary indications are that the spring treatment may have to be modified due to increased persistence of Nosema ceranae. At this time, based on information available, we suggest to use the following treatment method until we have completed actual research which is presently in progress.

For fall treatment use the same method as for Nosema apis (see above).

In the spring, feed medicated syrup (1:1 or 2:1) at a rate of 30mg fumagillin activity per colony, 4 times at 1 week intervals.

For example, dissolve 454g Fumagilin-B in 40 US gallons of sugar syrup and feed each colony 1 pint (treats 320 colonies). Repeat 3 times at 1 week intervals.

Schedule to complete treatment at least 4 weeks before anticipated supering.

For best results:

When incorporating Fumagilin-B into sugar syrup make certain to use good agitation to assure uniform distribution of the Fumagilin-B, otherwise some colonies will get higher dosages while others will not get enough. Do not prepare medicated syrup more than 24 hours in advance of feeding.

Do not incorporate Fumagilin-B into hot sugar syrup. Heat will damage fumagillin.

Do not barrel-feed medicated syrup. Heavily infected colonies are not good foragers and may get very little medication.

Use frame feeders, hive top feeders or pails.

Do not feed medicated syrup later than 4 weeks before adding supers for surplus honey.

If you have any questions, please e-mail info@medivet.ca.

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