



FUMAGILIN-B

Mixing and Feeding Instructions in U.S. Measurements

Preparation of Medicated Syrup:

Water	+Sugar	=Syrup	+Fumagilin -B
44 gallons	+727 lbs.	= 100 gallons	+16 ounces (454 g bottle)
9 $\frac{1}{2}$ gallons	+152 lbs.	= 21 gallons	+3.4 ounces (96 g bottle)
2 $\frac{1}{4}$ gallons	+37 lbs.	= 5.2 gallons	+0.85 ounces (24 g bottle)
$\frac{1}{2}$ Gallon	+8 lbs.	= 1 gallon	+0.18 ounces (5 g = 1 rounded teaspoon)

Fall Feeding Medicated Syrup

- 2 gallons for each 2-chamber colony (approx. 30,000 bees)
- 1 gallon for each 1-chamber colony (approx. 18,000 bees)
- $\frac{3}{4}$ gallon for each 5-frame colony (approx. 8,000 bees)

Feed additional unmedicated syrup to desired colony weight for wintering.

Spring Feeding Medicated Syrup

- 1 gallon for each 2-chamber colony (approx. 20,000 bees)
- $\frac{1}{2}$ gallon for each 1-chamber colony (approx. 12,000 bees)
- $\frac{1}{2}$ gallon for each 5-frame colony (approx. 8,000 bees)
- 1 gallon for each package colony

Feed additional unmedicated syrup to provide nourishment until nectar is available.

Additional measurements

- $\frac{1}{2}$ teaspoon = 1.5 g Fumagilin-B (31.5 mg activity)
- 1 teaspoon = 3.0 g Fumagilin-B (63 mg activity)
- $\frac{1}{2}$ tablespoon = 4.8 g Fumagilin-B (100 mg activity)
- 1 tablespoon = 9.5 g Fumagilin-B (200 mg activity)
- $\frac{2}{3}$ cup = 50 g Fumagilin-B (1.05 g activity)

For additional information please turn page over

FUMAGILIN-B

DIN 02231180

BICYCLOHEXYLAMMONIUM FUMAGILLIN SOLUBLE POWDER HS
For Veterinary Use Only

DESCRIPTION: Fumagilin-B is a water soluble preparation containing the antibiotic Bicyclohexylammonium Fumagillin, equivalent to 21 mg Fumagillin base per gram of powder. Fumagilin-B has a high specific action against *Nosema apis*, a microscopic, single-celled parasite which causes Nosema disease in honey bees. It acts on the multiplying, disease producing parasite in the gut and is not effective against the spores. To eradicate the continuing supply of parasites, Fumagilin-B must be provided over a period of several weeks.

DIRECTIONS: Medicated syrup is best prepared at a concentration of 25 mg Fumagillin base per litre of syrup, usually a 2:1 syrup (two parts of sugar to one part of water). Fumagilin-B may be dissolved in water or syrup at room temperature. For best results, heat the required amount of water to 35-50°C, then remove the heat source and add the Fumagilin-B and the sugar in that order.

To prepare this concentration of medicated syrup, use the following chart:

WATER	+SUGAR	=SYRUP	+FUMAGILIN-B
165 L	330 KG	380 L	454 g
35 L	69 KG	80 L	96 g
8.7 L	17 KG	20 L	24 g
1.8 L	3.6 KG	4 L	5 g

Good agitation is essential to assure uniform distribution of the medicament.

For the protection of wintering colonies, medicated syrup is best fed in the fall if it is fed only once per year. There may be advantages to feeding medicated syrup in the fall and in the spring.

DOSAGE

Fall Treatment: After all honey supers have been removed, feed medicated syrup at the following rates.

- 7-8 litres for each 2 chamber colony (approximately 30,000 bees)
- 4 litres for each 1 chamber colony (approximately 18,000 bees)
- 3 litres for each 5 frame colony (approximately 12,000 bees)

Feed additional unmedicated syrup to desired colony weight for wintering.

Spring Treatment

In the spring when colonies are stressed due to inclement weather conditions, mite infestations, other disease factors or intensive spring management, additional *Nosema* control may be indicated. In such cases, feed medicated syrup at the following rates:

- 3-4 litres for each 2 chamber colony (approximately 20,000 bees)
- 2 litres for each 1 chamber colony (approximately 12,000 bees)
- 1-2 litres for each 5 frame colony (approximately 8,000 bees)
- 3-4 litres for each package colony

Feed additional unmedicated syrup to provide nourishment until nectar is available.

Package bees may have been fed medicated syrup in transit, but such feeding alone is not sufficient to protect against *Nosema*. Each package colony is best fed Fumagilin-B immediately after installation. Colonies used for package production should be fed medicated syrup as a principle food source for one month prior to shaking for market.

Heavily infested colonies that will no longer take in syrup may be sprayed repeatedly, directly onto the bees, frame by frame with 1:1 sugar syrup (one part sugar to one part water) containing 2 g of Fumagilin-B per litre or syrup.

WARNING

Medicated syrup must not be fed immediately before or during the honey flow.

STORAGE INSTRUCTIONS

Store in a cool place, protected from sunlight.

Manufactured by



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