

## **Appendix II – Allowed and Prohibited Substances, for CNG Beekeeping**

### **Prohibited Substances**

Acetic Acid (vinegar) – Prohibited when used as a hive fumigant  
Aluminum phosphide (Phostoxin)  
Amitraz (Miticur, TakTic, Mitac)  
Bee Go  
Chlorine Bleach – except in dilute form to clean extraction and bottling equipment and to disinfect AFB-infected woodenware.  
Chlorpyrifos (Dursban)  
Copper Naphthalate (wood preservative) – Except when used exclusively on exterior hive component surfaces.  
Corn Starch  
Coumaphos (CheckMite+)  
Fenpyroximate (Hivastan)  
Fipronil (Max Force Gel roach bait)  
Fluvalinate (Apistan, Mavrik)  
Fumagillin (Fumidil-B)  
High Fructose Corn Syrup (HFCS)  
Honey Robber  
Hydramethylnon (Max Force Gel roach bait)  
Lincomycin  
Mineral Oil (FGMO) – Prohibited when used as a fumigant.  
Moth balls  
Naphthalene  
Oxytetracycline (Terramycin)  
Paradichlorobenzene (PDB, Para-Moth)  
Permethrin (GuardStar)  
Tylosin Tartrate (Tylan)  
Non-irradiated pollen – prohibited as supplemental feed, except when non-irradiated pollen is sourced from the same CNG beekeeping operation  
Home-Made Pollen Patties or Substitutes which contain vegetable oil (a grease patty), or other non-pollen protein sources, such as but not limited to Brewer's yeast, egg yolk, any flour (corn meal, soy flour, potato flakes, etc.), or any milk product, including whey protein.

### **Allowed Substances**

Acetic Acid  
Apiforme (made from Stinging Nettle (formic acid derivatives), Sorrel (oxalic acid), oils of thyme, lavender, eucalyptus, cajuput, and tea-tree)  
Api Herb  
Apple Cider Vinegar – For in-hive trapping small hive beetles, treatment of nosema, and in small amounts added to sugar syrup as a 'preservative'  
Bacillus thuringiensis – to treat stored honey comb for wax moth damage  
Bee Tea (see reference to recipe in Appendix I)  
Boric Acid – For in-hive trapping of small hive beetles  
Certan or B401 (Bacillus thuringiensis, subsp aizawai) – To prevent wax moth damage to stored honey comb  
Diatomaceous Earth – in a Freeman trap to kill adult and larval SHBs and outside hives as a soil treatment to kill SHB larvae  
Essential Oils (ApiGuard, ApiLife VAR, clove, white thyme, wintergreen, lemon grass, etc) – As a single treatment per calendar year not to exceed one month for cases of a documented severe Varroa infestation [14. (a)]. Very small amounts of the essential oils may also be added to sugar syrup as a preservative.

Ethylene Oxide – For the sterilization of woodenware only

Fischer’s Bee Quick

Formic Acid (Mite Away II pads, Mite Away Quick Strips, MiteGone wafers, Formic Acid Fumigator [Amrine, Reference 10.]) – One treatment per hive per calendar year (for a maximum of 21 days for Mite Away II pads, 7 days for Mite Away Quick Strips, 24 hours for a 50% Formic Acid fumigator). Must be used in accordance with application instructions (including ambient temperature). May not be used while honey supers are present on the hive despite application instructions. Allowed only if demonstrated Varroa infestation level requires treatment [14. (a)].

Gamma Radiation – For the sterilization of woodenware and pollen patties only

Honey B Healthy (emulsified lemon grass and spearmint oil)

Honey Vinegar

HopGuard (made from an organic acid found in the hop plant, *Humulus lupulus*) – Treatment for a maximum of 21 days per calendar year. Only in accordance with application instructions and in colonies with demonstrated Varroa infestation levels above accepted treatment thresholds [14. (a)].

Lactic Acid

Lecithin – As an emulsifying agent for essential oil recipes

Menthol – Only for severe and documented Tracheal mite infestations.

Mineral Oil, Food Grade (FGMO) – Allowed for in-hive trapping of small hive beetles and coating of extraction equipment ONLY; prohibited as a fumigant.

Nozevit (20% oak tree bark, 80% water)

Oxalic Acid

Plastic comb substitutes (Honey Super Cell, Permacomb)

Pollen – For supplemental feeding must be irradiated and with no additives if purchased. May be non-irradiated if sourced from the same CNG operation only. Home-Made pollen patties which contain only the CNG beekeeper’s collected pollen, water, and white granulated cane sugar.

Pollen Substitutes – Commercial only, not home-made (Bee-Pro, Brood Builder, Ener-G-Plus Bee Diet, Feed-Bee, MegaBee, Ultra Bee)

Home-Made Pollen Patties which contain only the CNG beekeeper’s collected pollen, water, and white granulated cane sugar.

Powdered Sugar – Only for the Dowda method of powdered sugar dusting and Sugar shake test. Only powdered sugar without corn starch may be used.

Pro Health (lemon grass and spearmint oil)

Resveratrol (grape skin extract)

Soil Nematodes – *Heterohabditis indica* for the control of small hive beetle (SHB) larvae.

Sucrose Octanoate ester (Sucrocide) – A sugar ester

Thymol-based wafers and gels (ApiLife VAR, Apiguard)

Vegetable Oil – Organic vegetable oil only. Used in SHB traps and in documented cases of severe tracheal mite infestation.

Vitafeed Gold

XenTari (*Bacillus thuringiensis*, subsp *aizawai*) – To prevent stored honey comb from wax moth damage.