

Research regarding the use of tobacco infusion as insecticide

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Abstract

The tobacco is a technical plant with numerous social and economical implications that was attributed magical powers. The cultivated tobacco (*Nicotiana tabacco*) is part of the *Nicotiana* genus, *Solanaceae* family. One of the main components of this plant is the nicotinic acid. It is well known that, in different dilutions, it can make an excellent insecticide used in treatment of different plants in greenhouses or field. Also, the tobacco infusion can be a good treatment for scabies in animals.

Mixed with copper solution, nicotine is successfully used against the vine parasites. There are two forms in which the nicotine can be used: concentrated nicotine extract and tobacco juice. To give good results, the juice and the nicotine extract must be used as nicotinic lotion, a composition in which soap is added. This has the role of facilitating the adherence of the caustic soda crystals to the leaves and releases the nicotine.

The lotions are applicable by direct wetting, on this purpose, a pulverizer being used. The wetting should be done in the evening. The nicotine lotion must be prepared just before usage, because it is very volatile when combined with sodium carbonate.

The juice and extract can be used to greenhouses fumigation. In veterinary medicine there are nicotine extract lotions used in combination with water, 1:4 ratio. For prevention it is used in water dissolved form, 50 g/l for animal bathing.

Key words: tobacco, nicotine extract, insecticide, tobacco juice