

P129. TOXICOLOGICAL EFFECTS & PROPERTIES OF *Apis mellifera* (Insecta: Hymenoptera: Apidae) VENOM

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Apis mellifera (Insecta: Hymenoptera: Apidae) venom, is a substance produced in the venom gland and stored in the 20-day period by the worker bees. Bee venom is light-colored, odorless and water-like liquids. This venom has a sharp and bitter taste. pH structure of bee venom is 5.0 - 5.5 and acidic. Over 20 min. dryness is result in lost of gravity about 65-70% of bee venom during this period. This situation increases the bee venom of cold and heat resistance. However, Bee venom is a very complex chemically. In bee venom content, there are many types of substance such as; protein, enzyme, peptide, active amine. etc. in macro or micro level agent. Accordingly, bee venom consists of over 18 compounds having pharmacological activity. *Apis mellifera* venom of adverse human health also has many features and effects that can affect positive. As a result of the presence of histamine, especially in people who are sensitive to bee venom, headache, swelling, itching, vomiting, and visual disturbances which may cause death by enlarging the blood vessels can be observed in many domains. In contrast anti-inflammatory and analgesic contents and properties of bee venom is also provides to use this bee venom for the the treatment of many diseases (Apitherapy) as; rheumatism, influenza infections, orthopedic problems and so on, since ancient times. As a result; the purpose and scope of the study is; analyzing the content and toxicity assessment of *Apis mellifera* (Insecta: Hymenoptera: Apidae) venom.