



Preparation of Therapeutical wax and comparison of Yellow and White bees waxes obtained Based on Standards of British pharmacopea (BP)

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Bees wax, as a by-product has such applications as showing solubility of therapeutic compounds, cosmetics, health products, emulsifiers and filler as a material of many applications in pharmaceutical industries. Due to pharmaceutical wax, annually a lot of currency is taken abroad. Therefore, some tests were performed in the direction of producing pharmaceutical wax in Iran along with standards. Initially the wax produced by *Apis mellifera* in spring 2007 was isolated from the Beehive honey combs. Following soaking in water, wax was obtained. For further purification the hot water and ethanol 90% in controlled temperature conditions were employed and using a decolorizing substance, the yellow wax was decolorized and white wax was obtained. Then, the obtained wax was compared with standards of the British pharmacopea. Findings of this research project showed that indices of wax extraction employing hot water at 85°C would meet standards of the BP, however results of experiments in which ethanol 90% has been used indicated that ethanol is not an appropriate solvent for wax extraction since indices will significantly decrease.

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