



## Estimation of chemical composition in different honey samples

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Received : November 2016

Accepted : March 2017

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**Abstract** : Natural honey is one of the most widely used products due to its unique properties, hence is used for nutritional and medicinal purposes. The present investigation was aimed at comparing the chemical composition of honey samples of four different companies, namely, Dabur, Patanjali, Al-Shafi (UAE) and Balaji (Local) with that of natural honey in order to find such honey that is closer to the natural honey. In this study, Patanjali honey sample was found to be best among all the honey samples, as its contents (Reducing sugar- 67.2%, flavonoid- 0.4mg, phenolic content- 169.67mg, protein- 1.8mg/ml and carbohydrate- 2.8mg/ml) were closer to the

natural honey sample ( Reducing sugar- 49.5%, flavonoid- 0.2mg, phenolic content- 56mg, protein- 1.9mg/ml and carbohydrate- 2.9mg/ml) as compared to other honey samples.

**Key words:** Reducing sugar, flavonoid, phenolic content, protein, carbohydrate.

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### Introduction :

Honey has been used as a food and as a traditional medicine since ancient times. It is a natural substance produced by honey bees, *Apis mellifera*, from the nectar of blossoms or honeydews. Honey is a sweet natural food made by bees using water, pollen and nectar from flowers (Cantarelli et. al, 2008). Honey has been used as a remedy for burns, cataracts, ulcers and wound healing, because it has a soothing effect when initially applied to open wounds.

Honey is supersaturated solution of sugars (mainly 38 % fructose and 31 % glucose), 80-85%