Tests for some adulterations in honeys produced by *Apis mellifera* in the state of Rio Grande do Sul

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**Introduction**

The honey produced by the honeybees is a very complex product composed mainly of glucose, fructose and water. The composition of honey depends of flora, climate, processing and storage conditions\(^1\).

The high value of honey puts it at risk for economically motivated adulteration because of strong economic incentives.\(^2\)

In this work, it was performed tests of ten honeys without any processing produced at different cities of the Rio Grande do Sul to analyze possible adulterations.

**Results and Discussion**

In this work, quick tests for some adulteration in honey were performed: apparent sucrose content, Lugol’s test and Lund’s test. The methodologies adopted are in according to the Adolfo Lutz Institute’s manual\(^3\).

Honey samples from the cities of Nova Esperança do Sul (NE1, NE2 and NE3), Santiago (S1 and S2), Itacurubi (I1), Santo Antônio das Missões (SA1), São Francisco de Assis (SF1), Alegrete (A1), Jaguari (J1) and Manoel Viana (MV1) were analyzed. The results of Lund’s test are presented in the Figure 1.

**Conclusions**

All analyzed honeys are in accordance with the Brazilian’s law. Further work is however necessary to determinate other two important parameters to evaluate adulterations: hydroxymethylfurfural content and diastase activity.

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