

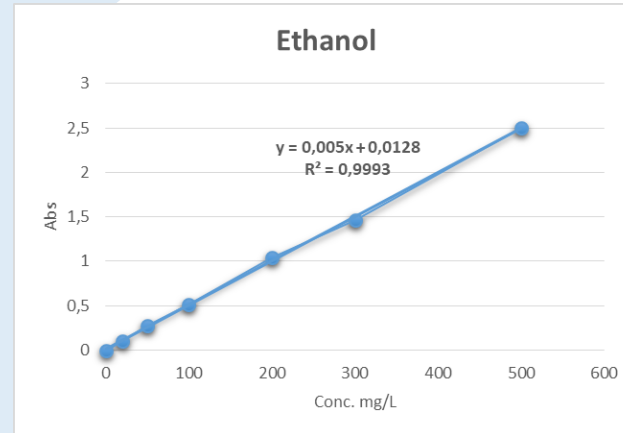
DETERMINATION OF LOW ETHANOL CONCENTRATION IN DIFFERENT FOOD CATEGORIES ACCORDING TO THE HALAL STANDARD

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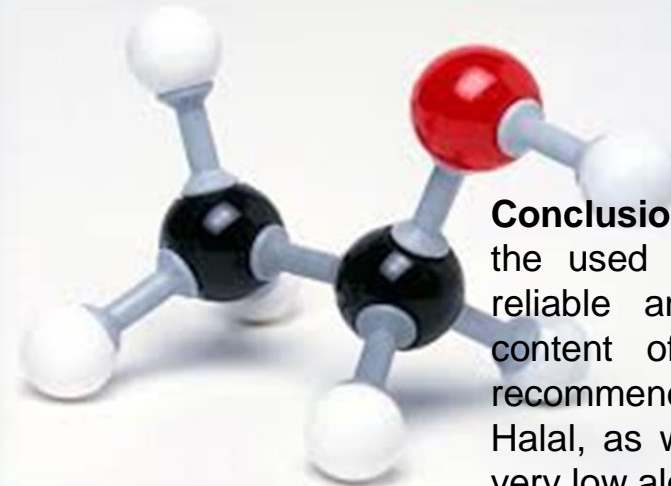
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Purpose: According to the EC Regulation on consumer information on food No. 1169/2011, all foodstuff that contains more than 1.2% vol. of alcohol must give information about its content. As well, ethanol is forbidden to be processed with or added to food in the Halal certification, therefore the control of the presence of alcohol in such types of products is very demanding.

Methodology: The main objective of this research was to determine the presence of alcohol in quantities <1% vol in products that are certified according to the Halal standard. Standardized method for determining low levels of alcohol in food (AOAC 2017.07 Enzymatic assay for ethanol in foodstuffs and other sample materials) via spectrophotometric technique was applied, with the Limit of Quantification of the method (LOQ) of 0.02%.



Results: In total, 32 food samples of different categories (jams, pasteurized vegetables, various snack products, baby food and honey) were analyzed. The analysis revealed that 98% of the samples were in accordance with EC Regulation No.1169/2011, and the conditions that must be met for the Halal certificate, while 2% of the analyzed samples did not comply with the requirements.



Conclusion: The obtained results indicate that the used analytical technique proved to be reliable and accurate for determining low content of ethanol in food, and can be recommended for use during the certification of Halal, as well for label checking for food with very low alcohol content.