

ABSTRACT

Quality Assay of Honey Marketed in Surabaya

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Honey is a natural liquid with sweet taste produced by honey bees from the nectar flowers or other parts of plants. Honey products sold in Indonesia must have a registration number from BPOM RI and fulfill the parameters of quality assay as stated on the Indonesian National Standard (SNI), SNI 01-3545-2013. Honey registration numbers in Indonesia are ML, MD, TR, P-IRT and SP. Different registration number classifies the manufacturer. In this research, honey quality assay were applied on one of each honey products represent code ML, MD, TR, and P-IRT as a model, to compare the quality among the products. The parameters of honey quality based on SNI included organoleptic (odor and flavor), diastase enzyme activity, hydroxymethylfurfural concentration, moisture content, ash content, water-insoluble solids content, acidity, metal contaminant (Pb, Cd, Hg, As), limit of chloramphenicol concentration, microbial contaminant, and concentration of reducing sugars and sucrose.

All of four samples honey which tested for thirteen parameters of honey quality based on SNI 01-3545-2013 gave result as follow. MD honey fulfill all test requirements except test of hydroxymethylfurfural. ML honey fulfill all test requirements except test of hydroxymethylfurfural and the ash content. P-IRT honey fulfill all test requirements, except test of hydroxymethylfurfural. TR honey fulfill all requirements except water content.

Keyword : honey, SNI 01-3545-2013, quality of honey, hydroxymethylfurfural (HMF).