Pengembangan Metode Kromatografi Gas Untuk Penetapan Kadar Etanol dalam Nira Siwalan (Borassus flabellifer Linn.)

Abstrak:

Lontar or siwalan (Borassus flabellifer Linn.) sap is one of the traditional beverage, which contains a quantity of alcohol (ethanol) as the product of fermentation by microorganisms. The amount of alcohol in alcoholic beverages can affects the body and central nervous system (CNS), based on its concentration in blood. This research was done to analyze the amount of alcohol in siwalan sap by doing the optimum sample preparation. Siwalan sap was stored until eight days in room temperature, extracted by appropriate solvent, and analyzed with gas chromatography method. All of them showed the profile of alcohol concentration during that day. The result showed that alcohol’s concentration increased until the fourth day, about 4.4846 % and after that decreased constantly.

Keyword:

Borassus flabellifer, ethanol, gas chromatography, validation method