

The Ethanol Production of Cashew Nut Apple (*Anacardium occidentale*) by *Zymomonas Mobilis* Fermentation Using Different Source of Nitrogen

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=132798&lokasi=lokal>

Abstrak

To study the ethanol production of cashew nut apple extract by *Zymomonas mobilis* fermentation, a batch fermentation process (in 24, 48 and 72 hours) using cashew nut apple extract (red, green and yellow variety) were performed. The urea, ammonium sulphate, extract of green peanut sprout and extract of koro were used as sources of nitrogen. The green cashew nut extract with ammonium sulphate in 24 hours of fermentation produced ethanol in optimum result. This treatment yielded pH of 5.87, 7.64 g/100 ml of sugar (with 48.44% of consumption), 8.0×10^8 bacterial ($\mu = 0,154$) and ethanol equal to 33.02 g/l ($Y_e = 90.19\%$).