

**PENGARUH WAKTU FERMENTASI PADA PRODUKSI ETANOL DARI
DAGING SALAK PONDOH (*Salacca zalacca* (Gaert.)Voss.)**

INTISARI

**RR KUSUMA DEWI HANDAYANINGRUM
NIM 14612249**

Banyaknya hasil panen salak pondoh (*Salacca zalacca*(Gaert.)Voss) menyebabkan menurunnya harga jual dan banyak buah salak yang membusuk. Maka untuk menanggulangi masalah tersebut perlu dilakukan proses pengolahan agar salak bertahan lama dan tetap memberikan nilai ekonomis bagi masyarakat. Pada penelitian ini, dilakukan fermentasi buah salak pondoh dengan cara anaerob. Menggunakan bantuan yeast *Saccharomyces cerevisiae*. Analisis GC-MS (*Gas Chromatography Mass Spectrofotometri*), dari hasil fermentasi salak 7 hari, 14 hari, dan 25 hari menunjukkan bahwa sampel mengandung etanol. Diantara ketiga variansi waktu fermentasi tersebut, kondisi paling optimal dan menghasilkan kadar etanol tertinggi sampel tersebut yaitu pada saat fermentasi 14 hari, dengan kadar etanol sebesar 99,55%.

Kata kunci :Buah Salak, Fermentasi, Anaerob, Gas *Cromatography*

**EFFECT OF TIME FERMENTATION ON ETHANOL PRODUCTION
FROM THE PONDOH SALAK MEAT (*Salacca zalacca* (Gaert.)Voss.)**

ABSTRACT

**RR KUSUMA DEWI HANDAYANINGRUM
NIM 14612249**

The high yield of salak pondoh (*Salacca zalacca* (Gaert.) Voss) results in a decrease in selling prices and many of the salak fruit rot. So to overcome these problems, it is necessary to do the processing so that salak lasts long and continues to provide economic value for the community. In this research, anaerobic fermentation of salak pondoh fruit was carried out. Using the help of yeast *Saccharomyces cerevisiae*. GC-MS (Gas Chromatography Mass Spectrophotometry) analysis, from the results of salak fermentation for 7 days, 14 days and 25 days showed that the sample contained ethanol. Among the three fermentation time variants, the most optimal conditions and produce the highest ethanol content of the sample is at the time of fermentation for 14 days, with ethanol content of 99.55%.

Keywords: Salak Fruit, Fermentation, Anaerobes, Gas Cromatography