

ABSTRACT**SYNTHESIS OF DIALKYLAMINOTEHYLPINOSTROBIN
DERIVATIVES (MANNICH BASE) BY USING MICROWAVE
IRRADIATION**

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This research was conducted to synthesize the derivatives of dialkylaminomethylpinostrobin as the target compound by using Mannich reaction to enhance bioactivity of pinostrobin. The synthesis using microwave irradiation was done in one pot reaction. The product was then purified by column chromatography to give purified products, which were analysed using IR, ¹H-NMR, ¹³C-NMR and mass spectroscopy to determine their structures, and it was concluded that the obtained compounds were 6-(4-methylpiperazine-1-ylmethyl)pinostrobin in 63,64% yield, 6-(piperidin-1-ylmethyl)pinostrobin in 12,14% yield, 6-[(*N,N*-dibutylamino)methyl]pinostrobin in 24,97% yield, 6-(morfolin-1-ylmethyl)pinostrobin in 74,30% yield and 6-[(*N,N*-diethylamino)methyl]pinostrobin in 19,40% yield.

Keywords: Mannich reaction, Pinostrobin, Formaldehyde, Microwave Irradiation