## SINTESIS 6-NITRO VERATRALDEHID (3,4-DIMETOKSI-6-NITRO BENZALDEHID) DARI VANILIN DENGAN HNO3 DAN CAMPURAN HNO3-H2SO4

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Abstract	The synthesis of 6-nitro veratraldehyde from vanillin was used HNO3Ã, and a mixture of HNO3Ã, and H2SO4. The reaction steps were (I) methylation of vanillin and (2) nitration of the methylation product. Methylation of vanillin was conducted using dimethylsulfate and NaOH at 60Ã, 0C for 2 hours. Nitration of the methylation product was performed in two methods, which using HN03Ã, and using a mixture of HN03Ã, and H2SO4Ã, both at 5Ã, 0C for 2 hours. The products were analyzed by means of TLC, GC; IR,Ã, 1H-NMR and GC-MS spectrometers. The methylation of vanillin gave 87.7 % yield of veratraldehyde which was found as a white crystal (m.p 43Ã, oC). The nitration of veratraldehyde produced 6-nitro veratraldehyde observed as a yellow crystal having of m.p. 1300C. Nitration using neat HNO3Ã, gave a smaller yield (50.35%) of 6-nitro veratraldehyde than nitration with a mixture of HNO3Ã, and H2SO4Ã, (93.63 %).
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Author	Dr. UNDRI RASTUTI, S.Si, M.Si