

ABSTRACT

PENETAPAN PROFIL GC-MS EKSTRAK ETANOL BUAH CABE JAWA (*Piper retrofractum* Vahl.) YANG DIKERINGKAN DENGAN 2 METODE BERBEDA

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Javanese chili (Piper retrofractum Vahl.) originating from the island of Java is one of the potential traditional medicinal ingredients. Plants belonging to the Piperaceae tribe contain kavicin, palmatic acid, tetrahydropiperic acid, piperidine, essential oils, and sesamin and the pungent substance piperine. This study used two drying methods which aimed to determine the content of active compounds remaining in the material after the drying process by pre-treatment in the form of blanching using the ethanol solvent maceration extraction method and then analyzed using GC-MS. The results of the analysis showed that the simplicia with aerated drying had 20 peaks detected in the ethanol extract and the drying method with blanching pre-treatment had 24 peaks. Compounds from the ethanol extract of Java Chilli with the wind-dried method which had the highest peaks were Ethanol, Piperidine, 1-[5-(1,3-benzodioxol-5-yl)-1-oxo-2,4-pentadienyl]-, (Z, Z)-, (2E,4E,14E)-N-Isobutylicosa-2,4,14, (E)-5-(Benzo[d][1,3]dioxol-5-yl)-1-(piperidin-1-yl)pent-2-en-1-one. While the compounds from the ethanol extract of Java Chilli pre-treatment blanching method which had the highest peaks, namely Piperidine, 1-[5-(1,3-benzodioxol-5-yl)-1-oxo-2,4-pentadienyl]-, (Z, Z)-, Ethanol, 8-Heptadecene, (2E,4E,14E)-N-Isobutylicosa-2,4,14, (2E,4E,10E)-N-Isobutylhexadeca-2,4,10-trienamide. In both methods there is no difference in the most abundant content. Compounds contained in the ethanol extract of Java chillies method 1 and method 2 with the highest concentrations are piperidine compounds.

Keywords: Piper retrofractum Vahl, Javanese Chilli, GC-MS, blanching, Wind dried