ABSTRACT

Vidiana Putri Suryapratiwi, Analysis of the Mefenamic Acid and Paracetamol in Herbal Medicines for Gout at Lawang Market Using the Thin Layer Chromatography (TLC). Supervised by Apt. Nurma Sabila, S.Farm., M.S.Farm

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Natural medicines are currently experiencing increased use due to changes in consumption patterns of people who use natural medicines as alternative medicine. One of the natural medicines or traditional medicines that people often use is herbal medicine for gout. Jamu is a traditional medicine with the simplest type of traditional medicine, where scientific proof of its efficacy has been proven from generation to generation or empirically. In making herbal medicine, the ingredients used must not be standardized but must meet the specified quality requirements. One is that it must not contain medicinal chemicals or Bahan Kimia Obat (BKO). In the last three years, BPOM has found that some traditional medicines contain BKO and prohibited ingredients that are dangerous to health, including adding mefenamic acid and paracetamol to the herbs. This research aims to determine whether or not mefenamic acid and paracetamol are present in herbal medicine for gout sold at Lawang Market. The research method was carried out descriptively at the Ma Cung University Laboratory using the TLC method. The mobile phase used chloroform: ethanol (90:10) with a stationary phase of silica gel GF 254. The results of 6 samples of gout herbal medicine showed that three samples were negative for containing mefenamic acid BKO. and paracetamol. The three other herbal medicine samples were positive for containing BKO, with details of 1 herbal medicine sample being positive for containing paracetamol, 1 sample containing BKO mefenamic acid and paracetamol, and 1 sample being positive for containing mefenamic acid.

Keywords: Mefenamic Acid, TLC, Herbal Medicine for Gout, Paracetamol