ABSTRACT

PONIMAN. Potential of Averrhoa bilimbi fruits ethanolic extract as natural diuretic by diuretic activity, pH, content sodium, and potassium study. Under direction of ABADI SUTISNA and ANDRIYANTO.

Belimbing wuluh (Averrhoa bilimbi) is one of medicinal herbs, which is often be used as diuretic. This research was conducted to examine the diuretic effect, pH, sodium, and potassium dynamics of belimbing wuluh fruits ethanolic extract in male Sparague-Dawley rat. Fifteen rats were divided into five groups, i.e. aquadest (control negative), ethanolic extract belimbing wuluh at dose as 0.44 g/kg bw (treatment I), ethanolic extract belimbing wuluh at dose as 0.88 g/kg bw (treatment II), ethanolic extract belimbing wuluh at dose as 1.75 g/kg bw (treatment III), and furosemide at dose as 21 mg/kg bw (control positif). The treatments were administrated by orally. Volume of urine excretion, diuretic activity, pH, and content of sodium and potassium were measured in each groups. The result show that ethanolic extract of belimbing wuluh at dose as 0.44 and 0.88 g/kg bw has the potential of natural diuretics. All treatments, sodium and potassium excretion was increased and on the other hand, the urine in all treatments were decreased pH. The research concluded that the ethanolic extract of belimbing wuluh at dose as 0.44 and 0.88 g/kg bw was increased diuretic activity with enhanced of sodium and potassium concentrate on urine.

Keywords : Ethanolic extract of belimbing wuluh, diuretic activity, pH, sodium, potassium.