ABSTRACT

ANTIOKSIDAN TEST ON A COMBINATION OF BUTTERFLY PEA FLOWER DRINK (Clitoria ternatea L.) WITH ADDITIONAL 10% OF BILIMBI FRUIT JUICE (Averrhoa bilimbi L.)

Firdayanti

Butterfly pea flower (Clitoria ternatea L.) is a plant originating from Tropical Asia and belongs to the Fabaceae family. Bilimbi fruit (Averrhoa bilimbi L.) is a plant originating from Indonesia and belongs to the Oxilidaceae family. This research was conducted to determine whether the combination drink of butterfly pea flower with the addition of 10% bilimbi fruit juice tested using the DPPH method had antioxidant activity. The method of research was on sample A (butterfly pea flower solution), sample B (bilimbi fruit juice), sample C (a combination drink of butterfly pea flower with the addition of 10% bilimbi fruit juice), each sample was pipetted then 1 ml of ethanol was added to each concentration, and repeat twice. The antioxidant content in sample A is 41.6207%, sample B is 67.0889%, and sample C is 97.3657%. Sample A, sample B, and sample C are known to have very weak antioxidant activity because they contain >200 ppm. In further research, to carry out antioxidant tests on a combination drink of butterfly pea flower (Clitoria ternatea L.) with the addition of 10% bilimbi fruit juice (Averrhoa bilimbi L.), it can be remade with a better formulation, so that better results are obtained.

Keywords: Butterfly pea flower, Bilimbi fruit, Spectrophotometry, IC50, Antioxidants