

ABSTRACT

TESTING THE ANTIOXIDANT ACTIVITY OF TELANG FLOWER (*Clitoria ternatea* L) DRINK WITH THE ADDITION OF 5% JUICE OF MTARBELLI FRUIT (*Averrhoa bilimbi* L)

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This research uses a type of research that aims to determine the antioxidant activity of Butterfly Pea Flower drink with the addition of 5% beimbing wuluh fruit juice using the DPPH method. The test was carried out by measuring the absorption of the sample at the maximum wavelength using UV-vis spectrometry. The results obtained from testing ascorbic acid as a standard solution had an IC50 value of 9.17 ppm. This shows that ascorbic acid has very strong antioxidant activity because it is less than 50. The results obtained from the three test samples were that test solution A (Butterfly Pea Flower drink) had an average of 32.22%; The test solution B (starfruit juice) had an average of 94.53%; and the test solution C (a mixture of Butterfly Pea Flower drink with the addition of 5% starfruit juice) had an average of 146.21%. Where these results show that test solution A has very strong antioxidant activity, test solution B has strong antioxidant activity, and test solution C has a weak antioxidant solution. This can be caused by several factors, namely dilution and pH of the preparation. Based on the conclusions that have been presented, in future research it is hoped that antioxidant tests can be carried out on these samples with better formulations so that the results obtained meet the requirements or provide good results.

Keyword : *Butterfly Pea Flower, Starfruit, Antioksidan, IC50.*