## **ABSTRACT**

## UJI LOD DAN LOQ PADA PENENTUAN AKTIVITAS ANTIOKSIDAN DENGAN METODE DPPH MENGGUNAKAN PELARUT ETANOL 96%

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This research highlights the importance of the role of antioxidants in maintaining human body health, especially in facing unhealthylifestyle and environmental changes. The method used, namely the DPPH method, has proven effective in determining the antioxidant activity of a compound. The test results show that the concentration of the DPPH sample, the higher the absorbance produced. This indicates that the concentration of antioxidant compounds in the sample can effect their ability to capture free radicals. The measurement of LoD (Limit of Detection) and LoQ (Limit of Quantitation) also provides improtant information about the detection and quantification limits of the method used. The LoD value of 2,2 ppm indicates the smallest concentration of the sample that can be detected spectrofotometrically, while the LoQ value of 4,1 ppm indicates the smallest concentration that can be quantitatively measured. This research contributes significantyl to the understanding of the antioxidant activity of a compound and effective methods for measuring it. It is hoped that this research can serve as a basis for further development in efforts to maintain human health throught the application of antioxidant compounds.

Key word: antioxidant, DPPH, ascorbic acid, LoD, LoQ