

## ABSTRACT

Ayuning Pinastika Yuwono. 24020219120013. **Antioxidant Test of Various Types of Honey and its Antimicrobial Activity against *Escherichia coli* and *Listeria monocytogenes***. Under the guidance of Siti Nur Jannah and Endang Kusdiyantini.

Foodborne disease is one of the sources of disease spread in food or drinks contaminated by microbes. The most common bacteria responsible for foodborne diseases are *Escherichia coli* and *Listeria monocytogenes*. Honey is a natural thick liquid produced by bees that can be used as a source of antioxidants and antibacterials. The purpose of this study was to determine the antioxidant activity of various types of honey and its antibacterial activity on *Escherichia coli* and *Listeria monocytogenes*. The antioxidant test was carried out using the DPPH (2,2-Diphenyl- 1-picrylhydrazyl) method, while the antibacterial test used the well method with four honey samples, namely commercial honey (A and B), and pure honey (C and D). The highest antioxidant test results were in Honey D sample with an IC<sub>50</sub> value of 6.33 ppm and the antibacterial test results with the largest inhibition zone in Honey D sample were 6.16 mm.

*Keywords: Honey, antioxidant, antibacterial, DPPH, pitting*