

# THE ALTERNATIVE SOURCE OF RAW MATERIALS OF THE TYPHOID MEDICINAL FROM NONI (*MORINDA CITRIFOLIA* L.) LEAF HERBS AGAINST THE GROWTH OF *SALMONELLA* SP BACTERIA

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## ABSTRACT

**Background:** Noni (*Morinda citrifolia* L) is a plant that has long been used by people as a food ingredient as well as medicine. One part from a plant of noni (*Morinda citrifolia* L) can be used as a medicine is a leaf. Plants are used as herbal medicines because they contain chemical compounds which have biological activity (bioactive substances). Biologically active compounds are secondary metabolites which include alkaloids, terpenoids, flavonoids, tannins, saponins, and others. **Objective:** This study aims to find out whether noni leaves (*Morinda citrifolia* L) contain active compounds as bactericides against *Salmonella* sp. **Method:** This study is a direct observation in the laboratory with stages covering. Extraction of Noni leaf active compound, antibacterial activity test, identification of noni leaf extract, then data analysis. **Results** of this study showed that the ethanol extract of noni leaves (*Morinda citrifolia* L) contained flavonoids with Rf value of 0.89, alkaloids with Rf values of 0.30, saponins with Rf values of 0.78, and tannins with Rf values of 0.60 while UV-Vis spectrophotometry method with a concentration of 20ppm with an absorbent value of 0.149, a concentration of 40ppm with an absorbent value of 0.214, a concentration of 60ppm with an absorbent value of 0.306, a concentration of 80ppm with an absorbent value of 0.395 and a concentration of 100ppm with an absorbent value of 0.480. **Conclusion:** From the results of the research that has been done, it can be concluded that the leaves of mango leaves (*Morinda citrifolia* L) contain active bactericidal compounds namely flavonoids, alkaloids, saponins and tannins

**Keywords:** *Extract of leaf Mengkudu Herb (Morida citrifolia L.), Compounds active of bactericidal*