



Phytochemical and Antibiotic Evaluation of the Methanol Extract of *Loranthus micranthus* Linn Parasitic on *Kola Accuminata*

Benjamin E. Ezema¹, Emmanuel I. Odoemelam¹, Mathias O Agbo²

¹Department of Pure and Industrial Chemistry (Organic Chemistry Unit)
Faculty of Physical Sciences, University of Nigeria.

²Department of Pharmaceutical and Medicinal Chemistry, University of Nigeria,
Nsukka.

Abstract: The methanol extracts of *Loranthus micranthus* Linn on *Kola acuminata* leaves were investigated for phytochemical studies and antibiotic assay, using *Staphylococcus aureus* and *Escherichia coli*. The leaves were extracted with methanol by cold maceration method. The extracts were further purified by column chromatography method. The phytochemical analysis showed flavonoids, resin, carbohydrates and tannins to be present in abundance, while alkaloids, saponins, reducing sugars, glycosides, terpenoids, steroids and acid compounds are moderately present. Fats, proteins and oils are absent. The sensitivity of the extracts could not inhibit the growth of *Escherichia coli*, but could inhibit the growth *Staphylococcus aureus*. The minimum inhibitory concentration of the extract against *Staphylococcus aureus* is 2.91 mg/ml.

Keywords: *Loranthus micranthus*, *Staphylococcus aureus*, *Escherichia coli*, phytochemical analysis.

Benjamin E. Ezema *et al* /Int.J. PharmTech Res. 2016,9(2),pp 176-181.
