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Biological Activities of Synthesized Chalcone Compounds Against Food-Borne Pathogens †

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Abstract: Flavonoids and Isoflavonoids compounds use chalcone as their precursor molecules; chalcones are most abundant in nature, especially in plants; naturally isolated chalconoids represent a group of compounds with interesting biological activity, and also it shows some of the pharmacological activities and medicinal activity, this o-glycoside is an organic compound. In this compound, the sugar molecule gets attached to the other functional group like glycosidic bonds. Both the chalcone and carbohydrate compounds show that biological activities like anti-inflammatory, anti-proliferative, anti-oxidant, anti-malarial, and antimicrobial activity were investigated. This project aims to show an overview of the biological properties in these chemical compounds and their various derived active compounds. This report shows the solubility and the compounds' activity against bacterial species like *Salmonella, E.coli, Bacillus,* and *Staphylococcus.*

Keywords: chalcone; o-glycoside; biological activities;anti-bacterial.

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Conflicts of Interest

The authors declare no conflict of interest.