

## Polyphenol and Antimicrobial Activity in Olive Oil from Algeria

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**Abstract :** Many recent studies show the positive effect of phenolic compounds in olive oil on health. They are known for their biological properties, where they have shown potential activity as an antioxidant, anti-inflammatory, and antimicrobial agents. However, this characteristic is rarely studied in olive oil from different regions of Algeria. Different samples collected from the western region of Algeria were evaluated for their polyphenol content, antioxidant activity, and antimicrobial effect. The obtained results demonstrated that this oil is rich in polyphenols and revealed high antimicrobial activity against *Staphylococcus aureus* and *Escherichia coli*. Finally, this study has highlighted the nutritional and pharmaceutical importance of olive oil grown in Algeria.

**Keywords :** olive oil, polyphenols, antioxidant activity, antimicrobial activity

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