

## **Antioxidant Activity and Correlation of Free Phenolic Content with the DPPH Radical Scavenging and Reducing Power Activity of Date Palm (Phoenix dactylifera L.) from Algeria**

**Authors :** Cheyma Bensaci, Mokhtar Saidi, Zineb Ghiaba

**Abstract :** The first objective of this study is to determine the phenolic contents and antioxidant capacities of three different varieties of date palm (Phoenix dactylifera L.) fruit (DPF) from Algeria were using three different solvents. As for the second objective is to find the correlation of phenolic contents with the both DPPH radical scavenging and reducing power activity. These results showed that date had strongly scavenging activity on DPPH .The IC50 value for DPPH radical scavenging activity was 0.15 mg/ml in acetone/H2O extract from Gh. And also, acetone/H2O extract from Gh showed the best AEAC value for reducing power was 8,48 mM. The results also showed that there are a positive correlation, so confined values between 0.153 and 0.972.

**Keywords :** phoenix dactylifera, antioxidant activity, correlation, reducing power

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