



## Antioxidant activities and total phenolic contents in *Triticum turgidum* L. and *Triticum isphahanicum* Heslot

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**Abstract :** The total phenolic contents and antioxidant activities of tetraploid wheat samples (*Triticum turgidum* L. subspecies and *Triticum isphanhanicum* Heslot) were evaluated to point out a potential source of natural antioxidants. Antioxidant activity assessed by 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical scavenging capacity assay ranged from 45.15% to 72.3%. The highest level was observed in *Triticum turgidum* L.ssp. *turgidum* Var. *mirabile* Korn. Antioxidant activity measured by reducing power assay ranged from 0.02 to 0.42 mg/mL. *Triticum turgidum* L. ssp. *turgidum* Var. *Mirabile* Korn. demonstrated the most value of reducing power. The total phenolic contents in extracts ranged from 61.79 to 96.72 mg GAE/g. The highest level was observed in *Triticum turgidum* L. ssp. *dicoccum*. The total phenolic content was positively correlated with DPPH antioxidant activity, but negatively correlated with reducing power antioxidant activity.

**Keywords :** antioxidant activity, total phenolic contents, reducing power, *Triticum turgidum*, *Triticum isphahanicum*.

Zahra Sheikhi *et al* /International Journal of ChemTech Research, 2017,10(6): 1059-1065.

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