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Antioxidant and antibacterial characteristics of phenolic extracts of locally produced honey in Saudi Arabia

August 2011, Vol. 62, No. 5 , Pages 513-517 (doi:10.3109/09637486.2010.550276)

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The antibacterial and antioxidant properties of 30 selected honey samples produced in Saudi Arabia have been studied.

The inhibitory action of the total phenolic content of the honey samples has been tested against *Staphylococcus aureus*, *Micrococcus luteus* and *Escherichia coli*. The MIC values of the ten selected honey samples against *S. aureus*, *M. luteus* and *E. coli* were in the range $0.5 \pm 0.2 - 3.6 \pm 0.3$; $0.45 \pm 0.05 - 5.0 \pm 0.6$ and $0.6 \pm 0.2 - 4.4 \pm 0.4$ mg mL⁻¹. The antioxidant activities of the ethyl acetate extracts based on their anti-radical power using the 1,1-diphenyl-2-picrylhydrazyl scavenging assay and their ferric reducing antioxidant power were in the ranges $50.78 \pm 1.4\%$ to $99.52 \pm 0.2\%$ and 0.85 ± 0.13 to 1.167 ± 0.13 mg/ml, respectively. The total phenolic content was in the range 84.97 ± 0.57 to 317.39 ± 0.76 mg/100 g.

Keywords

[Saudi honey](#), [total phenolic extract](#), [antimicrobial](#) and [antioxidant activities](#)

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