

## Detection of Anti-Salmonella, Shigella , Escherichia, Pseudomonas and Staphylococcus Antibodies in Camel Milk

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### ABSTRACT

The camel milk has been considered as a valuable nutrient for thousands of years ,but its immunologic and protective aspects have not enough elucidated. In this research, the presence of antibodies reacting with antigens of some important pathogenic microorganisms including: *Salmonella typhi*, *Shigella dysenteriae*, *Escherichia coli*, *Pseudomonas aeruginosa* and *Staphylococcus aureus* in camel milk is investigated.

Milk samples were prepared from 9 dromedary one-hump she-camels of Golestan Province, IRAN. Then antigens of mentioned bacteria are produced and after isolation of whey from camel milk samples, The quantitative agglutination test performed between whey samples and antigens of the bacteria. The results indicate the all whey samples have antibodies reacting with *Salmonella typhi*, *Shigella dysenteriae*, *Escherichia coli*, *Pseudomonas aeruginosa* and *Staphylococcus aureus* antigens with different titers. The maximum titers were 1/64 and were resulted from presence anti-*Escherichia coli* and *Staphylococcus aureus* antibodies.

Keywords: Camel milk, *Salmonella typhi*, *Shigella dysenteriae*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Staphylococcus aureus*