

Some Minerals Composition of *Gariss* From Two Production Sites Under Two Management Systems: A Comparative Study

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ABSTRACT

The objectives of present study were to elucidate the differences between minerals composition of *Gariss* samples procured from two different production sites in two different management systems (i.e. traditional system Kordofan site and semi-intensive system Khartoum site). *Gariss* samples from two production sites were collected in the different season, namely summer, autumn and winter. Means of some minerals content of *Gariss* collected in autumn (Kordofan), summer (Khartoum), and winter (Khartoum and Kordofan were determined, and then the age of *Gariss* was documented at the sampling time. Four different ages of *Gariss* (length of fermentation process reported by the persons responsible for *gariss* production) were registered (5-8hrs, 12hrs, 48hrs and more than 48hrs). Each fermentation time was analysed for some minerals composition. *Gariss* prepared from different locations and in different seasons in Kordofan and Khartoum production sites were significantly ($P \leq 0.05$) different for most of the minerals. This could be explained by the different nutritional sources or different physiological status that may affect the mineral composition of the milk and consequently *Gariss*. Moreover, the various age of *Gariss* showed different trends in the mineral composition.

Keywords: *Gariss*, Minerals, management system, Camels