## Proximate Composition and Mineral Contents of Major Muscles in Camel Carcasses

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## **ABSTRACT**

The objective of this study was to determine the chemical composition and mineral contents of major camel muscles. Twelve muscles [semitendinosus, triceps brachii, recuts femoris, biceps femoris, triceps brachii LH, infraspinatus, gluteus medius, semimembranosus, supraspinatus, psoas major, longissimus lumborum, longissimus thoracis] were removed from eight young male Najdi camels with similar background and weights (average carcass weight 120 kg). Samples were chilled (2 °C) for 24 h, trimmed all external fat and ground to homogenous. Moisture, crude protein, fat, ash and minerals (Fe, Mn, Ca, K, Na, and Zn) were determined. Significant (P < 0.05) differences were found among major camel muscles in moisture percentage with highest in triceps brachii, and recuts femoris and lowest in longissimus lumborum, and longissimus thoracis. Fat content ranged between 0.56 to 2.33 % in all camel muscles with the highest in longissimus lumborum, and longissimus thoracis and the lowest in Recuts brachii and Triceps brachii. Protein percentages of camel muscles ranged between 19.48 - 20.54% and have no significant differences (P < 0.05) among all muscles have been studied. Significant differences (P < 0.05) were found in ash content with a range between 1.05 - 1.43%. There were significant differences in all minerals that have been studied with highest element in potassium among all minerals followed by sodium, calcium and zinc. Psoas major, Longissimus thoracis and Longissimus lumborum muscles were among the lowest mineral contents in all camel muscles under investigation.

Key words: camel, carcass, muscles, proximate composition, mineral contents.