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Impact of stages of lactation on the minerals of Jakhrana goat milk under field and farm rearing condition

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ABSTRACT : Goat milk as a source for minerals nutrition is an often overlooked benefit of this dairy treat. In fact, when it comes to calcium, potassium and selenium, goat milk is a real champ. It seems, however, that the amount of mineral is not the only nutritional factor. The study was conducted at the central institute for research on goats, Makhdoom, Mathura; under the division nutrition feed resources and products technology for the study of farm rearing condition. Milk samples were collected from Jakhrana goat under the farm and field rearing condition. Field samples were collected from different villages. The overall average calcium content was 0.146 ± 0.0019 per cent. Phosphorus percentage in the milk of Jakhrana goat breed under field and farm rearing conditions in early, middle and late lactation 0.122 ± 0.0011 and 0.124 ± 0.0010 and 0.124 ± 0.0012 and 0.126 ± 0.0011 and 0.126 ± 0.0010 and 0.128 ± 0.0011 per cent, respectively. The potassium content in the milk of Jakhrana goat breed under field and farm rearing samples in early, middle and late lactation was 0.112 ± 0.0006 and 0.113 ± 0.0009 , 0.111 ± 0.0009 and 0.112 ± 0.0008 and 0.110 ± 0.0009 and 0.111 ± 0.0008 per cent, respectively. The overall average magnesium per cent in all above samples either field or farm rearing conditions in all stage of lactation was 0.0146 ± 0.00015 . Chloride content in Jakhrana goat breed indicated that the effect of stage of lactation under field and farm rearing condition was found to be 0.100 ± 0.00058 and 0.103 ± 0.00050 and 0.104 ± 0.00059 and 0.107 ± 0.00054 and 0.114 ± 0.00061 and 0.114 ± 0.00054 in early, middle and late lactation, respectively. The selenium percentage in the milk of Jakhrana goat breed under field and farm rearing conditions in early, middle and late lactation was found to be 0.01681 ± 0.000053 and 0.01641 ± 0.000058 , 0.01695 ± 0.000055 and 0.01666 ± 0.000060 and 0.01709 ± 0.000057 and 0.01690 ± 0.000060 , respectively. The overall average selenium content was a 0.01667 ± 0.000058 . Stages of lactation had conspicuous effects on milk quality of goats under study.

KEY WORDS : Stages of lactation, Minerals, Jakhrana, Goat milk, Field, Farm

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