

Effect of Different SE Diets on Blood SE, TAC Levels in Dairy Cattle and Their Newborn Calves

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Abstract : Free radicals can be produced during the respiratory oxidation of different cells. These free radicals can damage various macromolecules such as protein, fat, and nucleic acids are harmful to the body. The natural defense system that can prevent the damage of free radicals and neutralize them is titled under the name of total antioxidant capacity (TAC) and probably can change in some stress conditions such as a number of parturients. In this respect, we have determined 100 dairy cattle (1 week before and after calving) and measured plasma TAC levels in them by the ferric-reducing ability of plasma (FRAP) method. The results were analyzed by ANOVA_test, and a significant difference was shown between TAC levels of parturition numbers 4 and 5 with ($p < 0.001$). Also, in each parturition, plasma TAC level decreased after calving to compare before the same calving.

Keywords : SE, TAC, SE DIETS, FRAP

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