

PROTEIN STANDARD OF DAIRY GYR BULL SEMINAL PLASMA

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Seminal plasma proteins are essential for fertilization processes. The discovery of more accurate methods to identify fertility associated attributes helps the selection of bulls with high fertility potential. The aim of this study was to evaluate the variability and the profile of the seminal plasma proteins of Dairy Gyr bulls. Semen from 15 andrologically approved bulls was collected and seminal plasma was isolated by centrifugation. Total protein concentration was determined according to Lowry (1958) and the samples were loaded on a Supherose 12 column (FPLC). Seminal plasma total protein concentration ranged from 4.1 to 167.9 mg/ml, with an average of 47.1 ± 48.5 mg/ml, showing great variability among bulls. The chromatographic profile of seminal plasma proteins presented eight different peaks, ranging from 640 to less than 2KDa. These peaks were present in more than 75% of the bulls. However, despite the similarity of these profiles, it was possible to observe a high variability and large standard deviations values for the areas of the respective peaks among Dairy Gyr bulls.

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