

INVESTIGATIONS OF CATTLE CHROMOSOME HETEROCHROMATINE

K. Janušauskas, I. Miceikienė, R. Reinytė, J. Kučinskienė, V. Jakutis

Summary. Different methods of cattle chromosomal slide preparations and differential staining „C“, „R“ and „G“ methods were evaluated according to their suitability for cattle karyological testing. The possibilities of using densitometrical method for chromosome identification were evaluated.

By comparative estimation of different methods of differential staining of chromosomes it was determined that the best and most informative preparations for chromosomal testing are obtained by means of „G“ differential staining method. By analysis of heterochromatin polymorphism it was determined that densitograms of cattle chromosomes are specific and can be used for identification of chromosomes, but visual analysis and morphometrical measurements of densitograms being complicated and subjective, computer programs for chromosomal densitogram analysis should be worked out.

Keywords: cattle chromosomes, heterochromatin regions, differential staining, densitometria.