

DETAILED DESCRIPTION OF BOVINE CHROMOSOMES BY USING THE  
RBA TECHNIQUE

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SUMMARY

Detailed description of bovine chromosomes has been achieved by using acridine orange fluorescent R-banding after late BrdU incorporation (RBA technique). This procedure, compared to either G or Q banding techniques, has been found to be faster, more reliable and more resolute; the visualization, in fact, of details such as variable bands and telomeres, allows definite identification of all the chromosomes, especially the small acrocentrics. The use of this technique for routine analysis of cattle chromosomes is, therefore, strongly recommended. The adoption of a common system of nomenclature is also desirable in order to avoid misclassification of chromosomes involved in structural abnormalities as well as to trace evolutionary relationships among the Bovidae. This paper is a contribution for the establishment of a standard R-banded karyotype of cattle.