

MCS4 RNR GENUŲ NUSTATYMAS *MYCOPLASMA CAPRICOLUM* PORŪŠIO
CAPRICOLUM ETALONINĖJE PADERMĖJE CALIFORNIA KID IR PADERMĖJE
GM262G

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Summary. MCS4 RNA (125 nucleotides in length) is as abundant 5S rRNA in the cell and is encoded by two genes – *mcs4a* and *mcs4b*. We detected MCS4 RNA genes by random amplified polymorphic analysis (RAPD) and Southern hybridization technique. In our studies the genomic polymorphisms of *Mycoplasma capricolum* subsp. *capricolum* type strain California kid (ATCC 27343) and strain GM262G (ATCC 43092) were not detected by RAPD analysis with the pure DNA and with amplified products of these strains. Results of Southern hybridization with genomes of California kid and GM262G using two hybridization probes *mcs4a* US-C1 and *mcs4b* US-N2, have showed that signals were detected for the genome California kid using both probes. The strain GM262G has only gene *mcs4b* and the signal was detected only with the probe *mcs4b* US-N2.

Keywords: *Mycoplasma capricolum*, genes, goats, MCS4 RNA.