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Nucleotide composition of the DNA of *Listeria* (Russian)

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Abstract

The nucleotide composition of the DNA of various *L. monocytogenes* and *L. grayi* strains was studied by means of paper chromatography. The GC content of the bases varied from 38.6 to 43.6 mol%. The minor bases (5 methylcytosine and N6 methyladenine) were not detected. Strain differences in respect of the DNA composition were found in *L. monocytogenes* cultures belonging both to one and to various serologic types. Similarly to the DNA of other bacteria, DNA of *Listeria* possessed a low degree of pyrimidine blocking. As regards the distribution of pyrimidine blocks of various length, the DNA of *Listeria* differed from the DNA of *Arthrobacter citreus*. The data on the nucleotide composition and the character of pyrimidine distribution in the DNA of *Listeria* pointed to a marked difference between *Listeria* and other *Corynebacteriaceae*.
