KOVÁ, F. PATOČKA, A. JIRÁSEK, M. MÁRA, Institute of Medical Microbiology and Immunology, Laboratory for Special Medical Microbiology. 1st Institute of Pathological Anatomy, Faculty of Medicine, Charles University, Prague.

A complex comparison of biological properties of following representative strains of Listeria monocytogenes of different serotypes was performed: (1) strain designated Brat 1 (serotype 1); (2) strain "Welshimer", originally isolated by this author from plants. Strain Bratislava 1 can be considered representative of the species possessing typical biological properties, producing toxic substance, particularly haemolysin, NAD-ase and phospholipase. The strain has a medium virulence in mice. The strain Welshimer possesses biological properties similar to those of so called F-strains of Listeria monocytogenes (Welshimer, Stuart), produces no haemolysins but possesses lipolytic activity. This strain is avirulent in adult mice. Depending on the size of inoculum, this strain is capable of a short-term (7-12 days) persistence in the infected organism while eliciting a minimal reaction (mixed nodes in the liver and spleen). Both strains possess the previously described endotoxin-like factor Ei (Patočka, Mára) and they are immunogenic.