**MACROMOLECULAR COMPLEZX OF BACTERIAL ORIGIN AND USE OF SAID MACROMOLECULAR COMPLEX FOR PREVENTING AND TREATING INFLAMMATORY RHEUMATISM**


A B S T R A C T

The present invention relates to a bacterial macromolecular complex produced by bacteria belonging to the *Bifidobacterium longum* strain deposited according to the treaty of Budapest under number CNCM I-3994 with the Collection Nationale de Cultures de Microorganismes (CNCM) [National Collection of Microorganism Cultures], consisting of chains combining a lipoprotein and an oligosaccharide, characterized in that:

- the lipoprotein has a molecular weight of from 30 kDa to 60 kDa ;
- the oligosaccharide has a molecular weight of less than 15 kDa, and preferably less than 10 kDa;
- the lipoprotein component, which consists of all the lipoproteins of each of the chains, represents from 75 to 99%, preferentially from 80 to 98%, more preferentially from 85 to 95% by weight of the total weight of the complex, and the oligosaccharide component, which consists of all the oligosaccharides combined with each of the chains, represents from 1 to 25%, preferentially from 2 to 20%, and more preferentially from 5 to 15% of the total weight of the complex.