

Abstract

Provided is a strain of exopolysaccharide-secreting *Lactobacillus plantarum* and an application thereof. The deposit number of the strain is CGMCC No.5222. The strain differs from other strains of *Lactobacillus plantarum* in the amount of exopolysaccharide secreted, has unique physiological and biochemical characteristics and genetic background, and is a newly isolated and identified strain of *Lactobacillus plantarum*. The exopolysaccharide secreted by the strain is capable of eliciting B lymphocyte proliferation to enhance immunity, and is applicable in medicaments, healthcare products and food products for immunity enhancement.

Figure 1