

ABSTRACT

NOVEL LACTOBACILLUS HAVING VARIOUS FUNCTIONS, AND USE THEREOF

The present invention provides novel *Lactobacillus* sp. strains, novel *Bifidobacterium* sp. strains, or lactic acid bacteria mixtures thereof, which are isolated from kimchi or human feces. A certain *Lactobacillus* sp. strain or certain *Bifidobacterium* sp. strain according to the present invention is isolated from kimchi or human feces, and thus is highly safe, and has various physiological activities such as antioxidant activity, β -glucuronidase inhibitory activity, lipopolysaccharide (LPS) production inhibitory activity or tight junction protein expression-inducing activity. Accordingly, a certain *Lactobacillus* sp. strain, certain *Bifidobacterium* sp. strain or mixture thereof according to the present invention may be used as a functional food or medicinal material useful for the prevention, alleviation or treatment of intestinal damage, liver injury, allergic disease, inflammatory disease, or obesity.

Figure 1