

Abstract

***LACTOBACILLUS RHAMNOSUS* CAPABLE OF RELIEVING ALCOHOLIC CHRONIC LIVER INJURY AND APPLICATION THEREOF**

Provided are *Lactobacillus rhamnosus* CCFM1107 resistant to oxidation and capable of relieving alcoholic chronic liver injury and an application thereof in preparation of a working fermentation agent and dairy product. The dairy product is milk, milk powder, milk capsule product or fermented milk containing *Lactobacillus rhamnosus* CCFM1107. *Lactobacillus rhamnosus* CCFM1107 has high resistance to oxidation, diphenyl picrylhydrazyl (DPPH) free radical and hydroxyl free radical scavenging activities, capability of inhibiting lipid peroxidation and tolerance to bile salts, sodium chloride and pH. *Lactobacillus rhamnosus* CCFM1107 can also improve liver functions of rats suffering from alcoholic liver injury and anti-oxidation indexes, reduce the serum endotoxin level, adjust the distribution of intestinal flora, and effectively relieve the alcoholic liver injury.