**Supplementary figures:**

**Figure S1:** HPLC chromatogram of the standard monosaccharides，including rhamnose, arabinose, mannose, galactose and glucose. The retention time of each monosaccharide is 7.90 min, 10.5 min, 17.5 min, 19.0 min and 20.6 min, respectively.

**Figure S2:** HPLC chromatogram showing the monosaccharide composition of the EPS produced by *Lactobacillus coryniformis* NA-3 by comparing the retention time with the standard monosaccharides.

**Time/min**

**mV**

**rhamnose**

**mannose**

**glucose**

**galactose**

**mV**

**Time/min**

**mannose**

**galactose**

**glucose**

**rhamnose**

**arabinose**