

Supplementary Table 1. Fermentation pattern of *L. plantarum* ZJ316*

Substrates	Activate 24 h	Activate 48 h
Amylum	-	-
Arabinose	+	+
Cellobiose	+	+
Esculin	-	-
Glucose	+	+
Glutin	-	-
Hydrogen sulfide	-	-
Indole	-	-
Lactose	+	+
Maltose	+	+
Mannitose	+	+
Mushroom polysaccharide	+	+
Olein	-	-
Peptone Water	-	-
Raffinose	-	-
Sucrose	+	+
Urea	-	-
Xylose	+	+

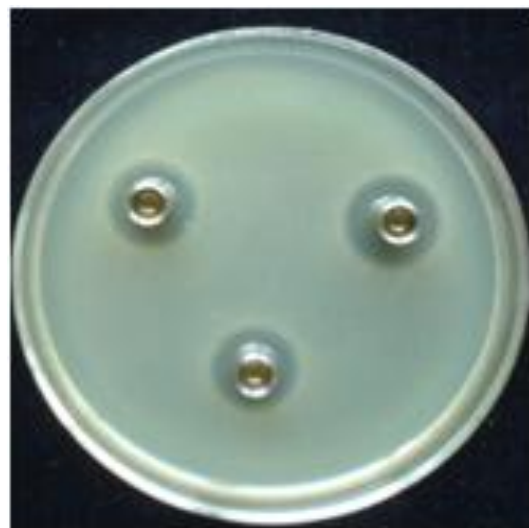
*, + represents positive reaction; - represents negative reaction.

Supplementary Figure 1. Inhibitory effects of the *Lactobacillus plantarum* ZJ316 culture supernatants at pH 6.0. Culture supernatants of *L. plantarum* ZJ316 were collected and adjusted to pH 6.0 using 1 mol/L NaOH. The inhibitory effects were evaluated on *Escherichia coli* and *Salmonella* using agar plates. A: Inhibitory effects of the culture supernatants on *Escherichia coli*. B: Inhibitory effects of the culture supernatants on *Salmonella*.

A. Inhibitory effects on *Escherichia coli*



B. Inhibitory effects on *Salmonella*



Supplementary Figure 2. Comparison of the inhibitory effects of culture supernatants of *Lactobacillus plantarum* ZJ316 with acetic acid and lactic acid at pH 3.5. Salmonella was used as indicator bacteria for comparing the inhibitory effects at pH 3.5. 1, represents culture supernatants of *Lactobacillus plantarum* ZJ316 was added into the Oxford; 2, represents lactic acid was added into the Oxford and 3, represents acetic acid was added into the Oxford.

