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WHOLE CELL PROTEIN ANALYSIS BY SDS-PAGE FOR IDENTIFICATION OF LACTIC ACID BACTERIA

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The aim of this work was to study the whole cell proteins of 49 strains of Lactic acid bacteria isolated from traditional pickle randomly collected from Ankara Çubuk region. These were Lactobacillus acidophilus (14 strains), Lactobacillus brevis (8 strains), Lactobacillus buchneri (12 strains), Lactobacillus plantarum (15 strains). All of the strains previously identified using the API 50 CH systems. The appropriate extracts were submitted to SDS-PAGE electrophoresis on vertical slabs gel according to Laemmli (1970). The protein molecular mass marker (200 to 10 kDa) was used as standard.14 Lactobacillus acidophilus strains were possessed among 16-27 total structural proteins with molecular masses of 7-174 kDa. 8 Lactobacillus brevis strains were possessed among 7-23 total structural proteins with molecular masses of 8-153 kDa. 12 Lactobacillus buchneri strains were possessed among 13-27 total structural proteins with molecular masses of 9-238 kDa. 15 Lactobacillus plantarum strains were possessed among 5-19 total structural proteins with molecular masses of 8-98 kDa.

Keywords: Lactic Acid Bacteria, SDS-PAGE, cell protein

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