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Analysis of Nutrients and Lactic Acid Bacteria Pattern of Indonesian Dadih as a Food Supplementation

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Abstract— Dadih, an Indonesia traditional fermented buffalo milk, is produced and consumed by the West Sumatra Minangkabau ethnic group of Indonesia that considered beneficial for human health. The objective of this study was to know nutrients composition and bacteriology characteristics of dadih that collected from Tanah Datar and Agam districts in West Sumatera province, Indonesia. This study initiated with analysis of biochemical of dadih covering protein, lipid, moisture value, ash content, pH, and titratable acidity. Bacteriology analysis have conducted to total bacterial and total Acid Lactic Bacterial (BAL) quantification. In this study, we have found nutrients compositions of dadih are total percentage of protein, lipid, moisture value, ash content, pH, and titratable acidity of dadih from Tanah Datar respectively are 12.41±1.30, 5.70±1.73, 66.09±6.00, 0.72±0.13, 4.55±0.21, 0.51±0.56. Total percentage of protein, lipid, moisture value, ash content, pH, and titratable acidity of dadih from Agam respectively are 10.89±2.55, 18.00±14.65, 61.94±20.18, 1.14±0.79, 4.33±0.46, 1.70±0.21. Dadih from Tanah Datar contain 1.9×10^7 CFU/g BAL and 2.3×10^7 CFU/g total bacteria. Dadih from Agam contain 4.6×10^6 CFU/g BAL and 2.9×10^6 CFU/g total bacteria. There is not pathogenic bacteria in Dadih Tanah Datar and Agam for human health.

Keywords— dadih; indonesia; microbiology; nutrients; west sumatera



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