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Stability of *Bacillus licheniformis* in culture condition

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Bacillus licheniformis is one of the lactic ferments isolated from kochujang and soybean paste. It's useful material for improvement of fecal microflora. The goal of this study, is to confirm the stability of *B. licheniformis* in alcohol, high concentration of salt, low pH, bile acid and high temperature. The viability of *B. licheniformis* was over 95% in condition of alcohol concentration 4%, 8%, 16%, 32% contrast with uncontained alcohol at 37°C for 4h. In high concentration of salt, *B. licheniformis* shows high viability about over 100% than uncontained. In addition *B. licheniformis* is stable for pH 4, 6. and high temperature over 80°C. So we can verified that *B. licheniformis* is stable for alcohol, high concentration of salt, pH 4, 6 and high temperature, but is unstable in pH 2, 100°C temperature and bile acid. Therefore we need more studies for contribute the stability of *B. licheniformis* at pH 2 and high temperature. Future studies are advanced.