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Abstract
Bacillus species produce a wide variety of secondary metabolites with antimetabolic and pharmacological activities. The study attempts to investigate the antibacterial activity of fermention broth from Bacillus subtilis natto against gas-intestinal pathogens and Vancomycin resistant Enterococci.
In our study, it is found that the fermention broth from Bacillus subtilis natto has good antibacterial activity againstSalmonella group B, Shigella group D, Vibrio vulnificus, Vibrio parahemolyticus and Vancomycin resistant Enterococci. Obiviously, the best antibacterial activities against Vibrio vulnificus, Vibrio parahemolyticus were obtained. When increasing the ratio of the nitrogen sources of the culture medium can enhance the antibacterial activity of the fermention broth. We also found the antibacterial activity against gas-intestinal pathogens and Vancomycin resistant Enterococci increased with the fermentation time of B. subtilis natto was elongated. The antibacterial substances from the fermention broth show good thermal stability.
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