

Lactobacillus thermotolerans a potential probiotic bacteria from chicken intestine?

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We investigated some of the probiotic properties of *Lactobacillus thermotolerans* in chicken intestine. The result indicates that *L. thermotolerans* is a moderate acid tolerable strain which can grow at low pH up to 2 h incubation without losing its viability. *L. thermotolerans* also seems to slow growth at the presence of 0.3% and 0.6% bile salts up to 6 h, indicating that *L. thermotolerans* is a moderately tolerant to bile salts. The bacterium is able to adhere to the crop cells and showed a strong adhesion to the cecum epithelium compared to ileal epithelium.

The preliminary study of *L. thermotolerans* indicates that it can easily adhere with crop and cecal/ileal epithelium, tolerate low pH and bile acid and can survive in cecal contents which are the important criteria for the selection of potential probiotics. In this circumstance *L. thermotolerans* might be a potential probiotic for chicken.

Biography

Abu Sadeque Md. Selim has completed his PhD at the age of 36 years from Hokkaido University, Japan and postdoctoral studies from The University of New South Wales, Sydney, Australia. He is an associate professor of Bangladesh Open University, a public university in Bangladesh. He has published significant scientific papers in reputed journals.

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