



# Antimutagenic potential of Probiotic *Lactobacillus sporogenes* Using Ames Assay

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## Summary :

## Objective:

Probiotic are beneficial microbial nutrition supplements which have useful effects on human health by conserving of bowel microbial balance. There are many studies that have been recommended the use of probiotic products as cancer risk reducer. The aim of present study was to investigate anti-mutagenic potential of Probiotic *Lactobacillus sporogenes* against TA98 and TA100 strain of *Salmonella typhimurium*.

## Results:

Probiotic *Lactobacillus sporogenes* showed significant antimutagenicity against mutagen sodium azide in TA98 and TA100 tester strains whereas it showed antimutagenicity result in inhibition of 93-97% and 62-88% of his<sup>+</sup> revertants induced by sodium azide in TA98 and TA100 strains respectively.

## Conclusion:

The antimutagenicity of Probiotic *Lactobacillus sporogenes* the observed in the present study implies chemopreventive pharmacological importance of Probiotic *Lactobacillus sporogenes* and encourages its use as a biotherapeutic agent.

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