Evaluation of Anti-Diarrheal Activity of Probiotic by Castor Oil Induced Diarrhoea in Swiss Albino Mice Model

Solanki HK, Shah DA, Patel CA, Jani GK. Evaluation of Anti-diarrheal Activity of Probiotic by Castor Oil Induced Diarrhoea in Swiss Albino Mice Model. Current Bioactive Compounds. 2018 Jun 1;14(2):142-8.

Summary :

The anti-diarrheal activity and mechanism of action of Bacillus coagulans Unique IS-2 using the Swiss mice model of castor oil induced diarrhea was studied. Probiotic Bacillus coagulans Unique IS-2 a 10^{10} cfu/kgcfu/kg, p.o. significantly ($p < 0.05$-0.001) reduced the fecal output and delayed the onset of diarrhea induced by castor oil when matched with the diarrheal control The effect of probiotic Bacillus coagulans Unique IS-2 and was significantly reduced by antagonist L-arginine.

Conclusion:

The experimental findings suggest a unique mechanism of action for probiotic Bacillus coagulans Unique IS-2 a comprising a probable inhibition of nitric oxide production by probiotic.