

عنوان مقاله:

Study of the effect of probiotic Lactobacillus acidophilus on expression of tir gene in intestinal Escherichia coli

محل انتشار:

سومین کنگره بین المللی و پانزدهمین کنگره ملی ژنتیک ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Fatemeh Hadavand - MSc. Student, Borujerd Branch, Islamic Azad University, Borujerd, Iran

Mohsen Mirzaee - Assistant Professor, Department of Laboratory sciences, Borujerd Branch, Islamic Azad University, Borujerd, Iran

Mohammadreza Mehrabi - Assistant Professor, Department of Laboratory sciences, Borujerd Branch, Islamic Azad University, Borujerd, Iran

خلاصه مقاله:

Probiotics play an important role in maintaining the balance and stability of the intestinal microbiota; microbiota contributes to digestive functions and gastrointestinal system activity. Escherichia coli is a common cause of food poisoning. Some species are found tightly in the intestines of animals and humans. There are about hundreds of species of Escherichia coli, most of which are harmful. The purpose of the present study was to investigate the probiotic effect on tir expression in Escherichia coli (EPEC). METHODS: In this study, the probiotic sample Lactobacillus acidophilus was prepared by Pishgam Company. (Iran-Tehran). After the effects of probiotics on the expression of tir gene, a Real Time-PCR technique was used to determine the probiotic effect. RESULTS: Therefore, performing the test steps of the results of the gene expression test showed that the probiotic Lactobacillus acidophilus had a significant effect on tir expression. This means that the presence of probiotics along with the EPEC can reduce the expression of the pathogen gene. CONCLUSION: The obtained results can be deduced that probiotics reduce the pathogenicity of EPEC bacteria due to the effect on the tir gene.

کلمات کلیدی:

Escherichia coli , tir, probiotic Lactobacillus acidophilus, Real Time-PCR

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/983878>

