

# Influence of Probiotic Bacteria *Pediococcus* sp and *Bifidobacterium* sp on Immune System †

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**Abstract:** Probiotic organisms influence the intestinal health. It helps in the maturation of the immune system, the development of normal intestinal morphology, maintains the load of intestinal flora, etc. It prevents the attachment of pathogenic microorganisms and the entry of allergens into the intestine. Probiotics improve the immune status of the individuals, which was detected by checking the levels of IgG and IgM for *E. coli* infection on an experimental animal fed with a probiotic drink prepared using *Pediococcus* sp and *Bifidobacterium* sp for one month. Control animals showed an increase in the level of Immunoglobulins. Both IgG and IgM, indicated the level of infection, whereas test animals did not show any increase in the level of Immunoglobulins.

**Keywords:** Immune system; Inflammatory response; Immunoglobulins; Allergens; Probiotic.

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## Conflicts of Interest

The authors declare no conflict of interest.