



The Effect of Probiotic (*Lactobacillus acidophilus*) on the Absorption of Calcium and Cholesterol in The intestines of Rats

Mohammed karee jabbar*

Faculty of pharmacy, Humanity of studies university college, Iraq.

Abstract: The interaction of *Lactobacillus acidophilus* with some physiological aspects of intestinal in regard to intestinal mucosal cells proliferation, differentiation and absorption were studied. The present study designed to study the influence of LBA on intestinal absorption. Therefore, male Swiss albino rats and divided into two main groups of rats each group consist of five rats, - first group: this Control (C) group received (1 ml per animal) of distilled water by oral gavage tube for 4 week. Second group: this treated (T) group received (5×10^8 CFU) *Lactobacillus acidophilus* as probiotics by oral gavage tube for 4 week and each group was fed on a balanced diet with high-calcium (1.8%) from calcium citrate. The experiment continued for 30 days. At the end of experiments, all experimental animals were sacrificed. Serum levels of calcium and cloistral measurement. Results of the present experiment revealed that there was significant difference in levels of calcium in C, T and the levels of calcium which was significantly ($p < 0.05$) increased in rats of T compared with C, the results showed significant decrease in lipid profile ($p < 0.05$) in T group compared with C group.

Mohammed karee jabbar /International Journal of ChemTech Research, 2017,10(6): 20-24.
