## In vivo VWXGLHV WR DVVHVV WLKattobSadiJluRs pV/anttEr/WnL10174&L&QÀXHRQQFSHOJRKIHLP disease

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The present investigation was aimed to assess the protective e ect of Lactobacillus plantarum MTCC1325 against D-Galactose induced Alzheimer's disease (AD) in male albino rats. Recently, we have demonstrated that L. plantarum modulates the functions of total ATPases and ameliorates the pathological features of AD. In this study, we have evaluate the potential antioxidant nature of L. plantarumrough in vitro assays (DPPH, NO and H2O2), and then estimated the antioxidant enzymes (SOD, CAT and GR) and lipid peroxidation levels (MDA) in vivo in selected brain regions such as hippocampus and cerebral cortex of male albino rats. Further, the alterations in gene expressions (BDNF and AChE) in the

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