

ORIGINAL ARTICLE

**EFFECT OF BARIUM ON THE GROWTH OF *SACCHAROMYCES
CEREVISIAE* L. (BAKER'S YEAST)**

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Abstract: *The effect of Barium was observed on Saccharomyces cerevisiae L. (brewer's/ bakers' yeast) in laboratory condition. In culture media, the growth levels of Saccharomyces cerevisiae, which were supplemented with Barium chloride salt in different concentrations (1-10,000 ppm) were recorded for 36 hours at the intervals of one and half hours. A gradual enhancement of growth was recorded in the in vitro culture in nutrient medium. Hence the overall response was dose-dependent. The growth of Saccharomyces cerevisiae was totally inhibited at 50,000 ppm concentration of Barium chloride. Saccharomyces cerevisiae is a member of soil microflora, are part of food chain in overall ecosystem and comes to atmosphere too. As Barium is very common in agriculture and technology, its accumulation can affect the natural growth of yeast in soil ecosystem adversely.*

Key words: *Barium, Saccharomyces cerevisiae, effect on growth.*

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