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RESEARCH ARTICLE

Effect of Lipo-chitooligosaccharides on seed germination, growth, vigour and biochemical changes in soybean seedling

■ V. SUGANYA, G. VELU AND P. JEYAKUMAR

SUMMARY

The bacterium-to-plant signal, lipo-chitooligosaccharides (LCOs) or Nod factor induces cell division and enhances seed germination. The experiment was conducted to test the efficacy of LCO on soybean seed germination and seedling growth under room temperature by roll towel method. Different concentrations of LCO were used for seed treatment along with microbial inoculum and biocontrol agents as a control. Among the treatments, concentration of LCO @ 1.8 and 3.6 ml/kg of seed performed better compared to other treatments. The results revealed that treating with LCO could influence soybean seed germination and growth of seedlings.

Key Words : Lipo-chitooligosaccharides (LCOs), Soybean, Seed germination

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