

Impact of Bio-Priming on Seed Quality and Longevity in Rice (*Oryza sativa* L.)

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ABSTRACT

Seed priming is mainly seed treatment before sowing. However, dehydration or re-drying is used to remove moisture in the seeds to a level can be stored for longer periods depending on the species and also to retain the beneficial effects of the seed. Primed seeds usually germinate faster and more evenly when soaked especially under adverse environmental conditions. Seeds treated with biological agents like *Pseudomonas fluorescens*, *Trichoderma viride* and organics like coconut water in various combinations recorded superior in seed quality with higher seedling vigour and lower electrical conductivity of seed leachates over other treatments and untreated control.

Keywords: *Seed priming, Bio-priming, coconut water, longevity and seed quality*