

Effect of Dry-Dressing with Botanicals on Electrical Conductivity of Seed Leachates of Blackgram Seed Stored in Different Packaging Material

V Gayatri, K Radhika, K Bayyapu Reddy and K L Narsimha Rao and K Kiran Prakash
Department of Seed Science and Technology, APGC, Lam, Guntur, A.P.

ABSTRACT

The study was conducted to determine the effect of seed treatment with botanical powders on electrical conductivity of seed leachates of blackgram variety, LBG-752, stored in different packaging materials in the Department of Seed Science and Technology, Advanced Post Graduate Centre, Lam, Guntur. Data on electrical conductivity of seed leachates were recorded initially before storage and at monthly interval during storage. The results of analysis of variance indicated that the influence of seed treatments, packaging material and their interaction effects on electrical conductivity was significantly different at different periods of storage. Neem leaf powder @ 10 g kg⁻¹ treated seed showed better performance by recording low electrical conductivity (0.843 dSm⁻¹). Seed stored in HDPE (700 gauge) bag maintained superior seed quality with less electrical conductivity (0.834 dSm⁻¹) after ten months of storage. Neem leaf powder treated seed stored in HDPE (700 gauge) bag maintained higher seed quality with less electrical conductivity compared to other interaction effects.

Key words: *Blackgram, lectrical conductivity, Botanical seed treatment, Packaging material*