

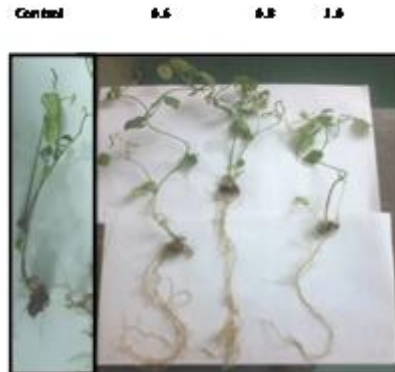






**Figure 1:** Plantlet regeneration of soybean (JS335) variety by using half seed explant

- a) Half seed explants inoculated in MS medium and shoot initiation after 10 days; b. Multiplication of shoot after 15 days; c. Multiplication of shoot after 20 days in the MS medium fortified with TDZ and IBA (10  $\mu$ M); d. Multiplication of shoot after 20 days in the MS medium fortified with TDZ and NAA (10  $\mu$ M); e. Root initiation in the MS medium fortified with TDZ and NAA (10  $\mu$ M); f. Root initiation in the MS medium fortified with TDZ and IBA (10  $\mu$ M); g. Hardening of Plantlets in papercups; h. Biohardened plantlets after application of *Bacillus subtilis* after 20 days.



**Figure 2:** Effect of *Bacillus subtilis* inoculum for Biohardening.