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Effect of Indole-3-Butyric Acid on in vitro Root Development in Lentil (*Lens culinaris* Medik.)

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Abstract: Lentil is an important crop of the family Leguminosae and is notoriously recalcitrant to rooting in vitro. Shoots of cultivar "Ali Daylı" of lentil obtained after culturing seeds for 10 days on MS medium were isolated and rooted on MS medium containing indole-3-butyric acid (IBA) at concentrations of 0.25, 0.5, 1.0 and 2.0 mg/l. The primary response was obtained after 4 weeks; 0.25 mg/l IBA gave the best results, with a rooting percentage of 25%, mean number of 7.87 roots along with mean root length of 7.13 cm. However, all other concentrations of IBA failed to induce roots.

Key Words: *Lens culinaris*, lentils, rooting, in vitro, IBA

Turk. J. Bot., **26**, (2002), 109-111.

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