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## Influence of growth regulators on plant regeneration in tomato

J. Gubiš, Z. Lajchová, L. Klčová, Z. Jureková

<https://doi.org/10.17221/3777-HORTSCI>

Citation: Gubiš J., Lajchová Z., Klčová L., Jureková Z. (2005): Influence of growth regulators on plant regeneration in tomato. Hort. Sci. (Prague), 32: 118-122.

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We studied the effect of different plant growth regulators on *in vitro* regeneration and plant growth of three cultivars of tomato (*Lycopersicon esculentum* Mill.) from explants derived from hypocotyls and cotyledons of aseptically grown seedlings. The regeneration capacity was significantly influenced by cultivar and explant type. The highest number of shoots regenerated in both types of explants was recorded on MS medium supplemented with 1.0 mg/dm<sup>3</sup> zeatin and 0.1 mg/dm<sup>3</sup> IAA. The cultivar UC 82 showed the best regeneration capacity on all types of used media. The most responsive explants were hypocotyls with 90–92% regeneration in dependence on the used cultivars and mean production from 0.18 to 0.38 shoots per explant.

**Keywords:**

culture *in vitro*, organogenesis; BAP; IAA; TDZ; ZEA; *Lycopersicon esculentum*

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