

## A Simple Method for Regeneration of Plant from *Canavalia ensiformis* L. Stem via Callus

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### Objectives

This study was investigated a simple method for regeneration of plant from *Canavalia ensiformis* L. stem callus.

### Materials and Methods

1. Material: *Canavalia ensiformis* L.
2. Method: Plant regeneration of *Canavalia ensiformis* L. via callus was achieved from stem using MS basal medium containing various concentrations of growth regulators.

### Results and Discussion

The highest callus formation frequency was obtained when stem explants were cultured on MS medium with 1.0 mg/L NAA and 1.0 mg/L kinetin for 3 weeks. After 12 weeks of culture plantlet

from callus was induced on MS medium supplemented with 1.0 mg/L NAA and 1.0 mg/L kinetin. Regenerated plantlet were subcultured for further growth.

**Table 1.** Effect of various concentrations of NAA and kinetin on induction of callus from stem of *Canavalia ensiformis* L. for 3 weeks

NAA	Kinetin	Fresh weight (g)
0.5	0.05	1.0584
	0.1	1.1155
	0.5	2.2528
	1.0	2.7595
	2.0	3.0638
1.0	0.05	1.8969
	0.1	1.9924
	0.5	2.6567
	1.0	3.4310
	2.0	4.1130
2.0	0.05	1.2827
	0.1	2.3110
	0.5	3.0541
	1.0	3.1240
	2.0	2.8472