

## Effect of Fertilizers and Growing Media on Vegetative Growth of Deflasked Plantlets in *Nephrolepis biserrata* (Sw.) Schott. and *Davallia solida* (Forst.) Sw.

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### Abstract

This study was investigated the effect of different fertilizers (soluble fertilizer and controlled release fertilizer) and media (quickplug, coir, peat moss and mix medium with 1 coir and 1 peat moss (v/v)) on the vegetative growth of plantlets of *Nephrolepis biserrata* (Sw.) Schott. and *Davallia solida* (Forst.) Sw. from green globular body. After 150 days of experiment, the results showed the highest fresh weight and dry weight for vegetative growth were in quickplug, and then flowed by growing mix medium with 1 coir and 1 peat moss (v/v), and the lowest in coir.

The highest SPAD, the longest leaf length and the widest leaf width for *Nephrolepis biserrata* (Sw.) Schott in applying soluble fertilizer(20N-20P<sub>2</sub>O<sub>5</sub>-20K<sub>2</sub>O) at concentration of 0.5 g · L<sup>-1</sup> once a week. The fresh and dry weight had the highest amount with applying controlled release fertilizer(17N-17P<sub>2</sub>O<sub>5</sub>-17K<sub>2</sub>O).

The highest amount of fresh weight, dry weight and SPAD for *Davallia solida* (Forst.) Sw in applying soluble fertilizer(20N-20P<sub>2</sub>O<sub>5</sub>-20K<sub>2</sub>O) at concentration of 0.5 g · L<sup>-1</sup> once a week. The longest leaf length and the widest leaf width had appeared with applying controlled release fertilizer(17N-17P<sub>2</sub>O<sub>5</sub>-17K<sub>2</sub>O).

**Keywords:** *Nephrolepis biserrata*, *Davallia solida*, Green globular body (GGB), Fertilizer, Medium.

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