

**EVALUATION OF THE EFFECT OF CCC
(2 CHLOROETHYLTRIMETHYLAMMONIUM CHLORIDE) ON THE
GROWTH OF *MUCUNA PRURIENS* (L.) DC.**

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Abstract: The effect of CCC (2 chloroethyltrimethylammonium chloride) on the growth of *Mucuna pruriens* (velvet bean, Family: Fabaceae) was evaluated in the present study. Different concentrations (500, 1000 and 2000ppm) of CCC were administered to viable seeds in pots of garden soil, with growth parameters including plant height, leaf surface area, number of leaves, fresh weight and dry weight considered. CCC caused reduction in plant height and number of leaves as the plant grew as well as leaf area in a concentration-dependent manner. Very minimal effect was observed on fresh and dry weight of root while the stem and leaves experienced concentration-dependent reduction in both weight parameters. Reduction in mitotic activity is probably responsible for the retarding effects observed.

Keywords: CCC, *Mucuna pruriens*, Fabaceae, Growth regulators, Seeds

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