

PRODUCTION OF FRIABLE EMBRYOGENIC CALLUS FROM KM140 CASSAVA VARIETY

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Summary

Different media were tested for the induction of Somatic Embryo (SE) and Friable Embryonic Callus (FEC) of KM140 cassava variety. Result showed that DKW medium with 12 mg/L of picloram was suitable for SE induction (92.2%). For FEC, MMS medium with 12 mg/L of picloram was most suitable (25.6% induction rate). Other factors such as: light and size of somatic embryo cluster also affected FEC formation rate. Highest FEC formation rate was 31% using SE cluster with size ranging from 0.5 to 0.8 cm in diameter in the dark. This is the first report in Vietnam of a successful production of FEC for KM140 variety, opening the door for potential biotechnological applications.

Key words: *Cassava, friable embryogenic callus, KM140, somatic embryo.*