

ชื่อเรื่อง

## In Vitro Selection of NaCl Tolerance in Vetiveria Species

ชื่อผู้วิจัย

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### Abstract

The NaCl tolerance of vetiver grasses were examined in vitro. There were 5 ecotypes of *Vetiveria zizanioides* Nash: Surat Thani, Songkhla 3, Chiang Rai, Srilanka and Indonesia; and 5 ecotypes of *V. nemoralis* A. Camus: Kampaeng Phet 1, Prachuap Kiri Khan, Nakhon Sawan, Huay Diag and Gudbaak. The calli from young inflorescence were cultured on MS medium supplemented with 5  $\mu$ M 2,4-D and 0-4% NaCl at 1% interval for 45 days. The Kampaeng Phet 1 clearly showed maximum degree of salt tolerance. The NaCl concentration that gave 50% reduction in callus growth was 1.95% and followed by Prachuap Kiri Khan at 1.31%. The surviving calli of the Kampaeng Phet 1 were regenerated to plantlets on hormone and NaCl free MS medium for retesting of NaCl tolerance.