

## Secretory expression of glucose oxidase gene in a yeast expression system

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Glucose oxidase (GOX) gene from *Aspergillus niger* was expressed in a yeast and purified. With specific primer set for GOX gene, 1.7 Kb of DNA fragment containing the coding region of glucose oxidase (GOD) from *A. niger* KCTC 6278 was amplified and the amplified DNA fragment was digested with restriction enzymes and inserted into a yeast expression vector, pGAPZ C. The GOD gene cloned vector was then transfected into *Pichia pastoris* X-33, and the transformed yeast was selected on YPD agar plate containing Zeocin. GOD activity was detected in the culture supernatants of GOX gene transformed *P. pastoris* X-33. The expressed GOD protein was purified with affinity chromatography and represented single band on SDS-PAGE.