

Isolation and identification of three species of bacteria from the termite *Coptotermes curvignathus* (Holmgren) present in the vicinity of Universiti Putra Malaysia

ABSTRACT

In this study the lower termite *Coptotermes curvignathus* (Holmgren) and higher termite *Macrotermes gilvus* (Hagen) were identified from different parts in the vicinity of University Putra Malaysia (UPM). We isolated three enteric bacteria from the hindgut of *Coptotermes curvignathus* (Holmgren). All isolates were facultative anaerobes. The isolates were identified as *Enterobacter aerogenes*, *Enterobacter cloacae* and *Clavibacter agropyri* (*Corynebacterium*) by using BIOLOG assay and Bergey's manual. The bacteria were able to assimilate carboxymethylcellulose (CMC) and cellobiose.

Keyword: Higher and lower termite; Gut bacteria; Isolation; Identification; Biolog reader; Lignocellulose