

Molecular detection of environmental histamine producing *Morganella morganii* strain

Abstract

Histamine-producing bacteria may be associated with much irritable bowel disease. The present study included fresh samples of Carp fish muscles for histamine producing bacteria (HPB) detection. Preliminary detection was depended on Niven's medium, out of 25 bacteria samples, only 17 species were positive for histamine production. Molecular technique by PCR, the responsible Histidine – Decarboxylase (HDC) 709 pb was detected by specific primer. The results were compactable and parallel as those in Niven's medium detected for histamine production. The bacterial species were identified by 16SrDNA sequence technique. The specimens (36) were diagnosed by amplifying universal primer of 16SrDNA. Sequence data were analyzed by (ncbi) program. Sequence results showed dominance of *Morganella morganii*.