Abstract

The occurrence and distribution of halophilic vibrios in coastal waters of eastern Thailand (August 1991 to July 1992) were investigated. The occurrence rate of bacterial strains in thirty sample sites ranged from 0 to 66.67 %. Sucrose-positive virios were found to be more common (60.19 % of total vibrios) than sucrose negative bacteria. A total of 915 bacterial strains belonging to six species were fully characterized. Among these, Vibrio alginolyticus was themost frequently isolated (324 strains) followed by $\sqrt{}$ parahaemolyticus (307 strains) <u>V</u>. <u>alguillarum</u> (114 strains), non-01 <u>V</u>. <u>cholerae</u> (40 strains), V. vulnificus (34 strains) and Vibrio spp. (96 strains). The distribution rate of halophillic vibrios in each sampling site are not quite diferent, but the occurrence rate is vary in according to seasons.

Susceptibility testing of Vibrionaceae isolated from eastern Thailand environments showed high resistance to ampicillin, penicillin G and streptomycin but susceptible to tetracycline and chloramphenicol. Very few of these isolates were susceptibility to kanamycin and colistin. Some stains of V. parahaemolyticus showed intermediate reaction to tetracycline, and antibiotics important in the treatment of gastroenteritis.