

DETECTION OF *TDH* AND *TRH* GENES IN *VIBRIO PARAHAEMOLYTICUS* ISOLATED FROM *CORBICULA MOLTKIANA* PRIME IN WEST SUMATERA, INDONESIA

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Abstract. The occurrence of *Vibrio parahaemolyticus* in raw *Corbicula moltkiana* Prime from Lake Singkarak and Pasar Raya Padang market and in cooked samples in West Sumatera, Indonesia, was studied. Thirteen raw and seven cooked bivalve samples were positive using CHROMAgar™ *Vibrio* medium. All 47 *V. parahaemolyticus* isolates were positive for *toxR* gene but negative for *trh*. However, 36% (17/47) of *V. parahaemolyticus* strains were positive for *tdh* gene. Antibiotic profiling showed that 76% and 38% of isolates from raw and cooked bivalves respectively were resistant to ampicillin. Using RAPD-PCR analysis, most of the strains were clustered according to their source of isolation but some of the strains from raw and cooked samples were clustered together. These results indicate that pathogenic *V. parahaemolyticus* isolates are present in *Corbicula moltkiana* Prime in West Sumatera, Indonesia, suggesting that *V. parahaemolyticus* may also be present in seafood in other regions of Indonesia.

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