

**Identification of *Vibrio cholerae* in *Anadara granosa*  
Sold at Wet Markets in the Central of  
Surabaya, Indonesia**

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**ABSTRACT**

Aimed of this study was to determine the presence of *Vibrio cholerae* in cockles (*Anadara granosa*) from different wet markets in Surabaya Central. A total of 100 samples from 7 different markets (Pasar Kembang, Pasar Asem, Pasar Gersikan, Pasar Indrakila, Pasar Kedungdoro, Pasar Keputran, and Pasar Pacar Keling) were examined for the presence of *Vibrio cholerae*. This identification method was done the enrichment using *Alkaline Peptone Water*, then cultivated on the *Thiosulfate Citrate Bile Sucrose* agar media to get a specific colony including round shaped, bright yellow, and 2-3 mm in size. Then the colony was tested in Nutrient Agar which already mixed with sodium chloride (NaCl) as much as 0%, 6%, and 8%. the colony that growth in 0% (+) ; 6% (+/-) ; 8% (-) then was proceeded for Oxidation test. 47% of samples were positively contaminated *Vibrio cholerae* confirmed by the biochemically test and serogroup O1 detection was done by running into PCR procedure. The results showing a negative result and primer dimer were acquired.

**Keywords** : *Vibrio cholerae*, Cockles (*Anadara granosa*), Polymerase Chain Reaction