

## Quality assessment of tiger tooth croaker (*Otolithes ruber*) during ice storage

### Abstract

Quality and shelf life of tiger tooth croaker (*Otolithes ruber*) during 19 days of iced storage were investigated by measurement at sensory, chemical and microbiological aspects. Sensory scheme was modified according to the panellists' perception and specific schema was created for this fish. Acceptability quality of Tiger tooth croaker as determined by sensorial data is 15 days. Results of sensory and microbial analyses had high correlation. Bacterial loads in samples were higher than limiting level ( $3 \times 10^6$  CFU g<sup>-1</sup>) after 15 days of ice storage. The initial value of pH was 6.71 and increased to 7.35 at the end of storage. TVB-N content was 15.31mg N/100g on day 0 and reached to 36.52 on day 19. The release of FFA increased from an initial value of 4.15 (expressed as % of oleic acid) to a final value of 12.75 during the storage period. The initial PV value was 11.69 meq/kg and it increased to 50.75 meq/kg on day 12 and then started to decrease to 35.82 meq/kg at the end of storage period. The initial and final value of TBA were 0.83 and 3.75, respectively. Shelf life of tiger toothed croaker determined 15 days during ice storage.

**Keywords:** Tiger tooth croaker; Fish quality; Shelf life; Freshness indicators.



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