



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.15 No.01, pp 56-61, 2022

DNA Barcoding of Tilapia Species from Wasile, East Halmahera, North Maluku, Indonesia

^{*1}Ahmad Talib, ²Melfa Marini, ¹Syahnul Titehelu

¹Fishery Product Technology Study Program,
Muhammadiyah University of North Maluku, KH. Ahmad Dahlan Street 100, Sasa Ternate Village, North Maluku Province, Indonesia

²Research Institute for Inland Fisheries and Extension, Ministry of Marine Affairs and Fisheries, Gubernur H.A Bastari Street 08, Jakabaring, Palembang 30252, Indonesia

Abstract : DNA barcoding is a method of using short gene sequences from the genome of organisms to identify morphologically similar species. This study aims to determine the genetic variation of red and black tilapia from Bumi Restu Village, Wasile Sub-district, East Halmahera Regency. The samples were analyzed at the Molecular Biology Laboratory of the Research Institute for Freshwater Aquaculture (BRPBAT), Bogor. The experiment was carried out with samples of tilapia from the biofloc pond of the aquaponic nutrient system. The results showed that when the Wasile blast samples were compared with tilapia samples from Myanmar, Merauke, and Malang, the four samples were identified as *Oreochromis niloticus* species.

Key-words : DNA barcoding, tilapia, East Halmahera, Wasile Sub-district.

Ahmad Talib et al//International Journal of ChemTech Research, 2022,15(1):56-61.

DOI= <http://dx.doi.org/10.20902/IJCTR.2022.150107>
