Electrophoresis Identification of Angle Wings, Piddocks from the Coastline of Samutsakhon and Suratthani Provinces

Sunan Tuaycharoen1*, Walai Kleechaya2, Visuth Verakunpiriya3

1Inland Fisheries Research and Development Bureau Department of Fisheries
2Fishery Technological Development Division Department of Fisheries
3Coastal Fisheries Research Institute, Coastal Fisheries Research and Development Bureau

Abstract

The Piddocks, Angle Wings (Bivalvia: Pholadidae) from the coastline of Samutsakhon and Suratthani Provinces were identified species by using electrophoresis technique. The samples were collected from the coastal of Samutsakhon and Suratthani Provinces between November to December 2002. Two species of sample were found on Samutsakhon: Big Piddocks and Small Piddocks and only Big Piddocks for Suratthani Provinces. Foot of Piddocks were extracted and tested by 8 isozymes: PGM, GPI, MPI, AAT, IDH, LAP, ME and MDH. The good resolution were obtained from 3 isozymes as GPI, AAT at TC buffer pH 8 and MDH at TC buffer pH 6.3/6.7. The protein pattern of Big Piddocks from Suratthani and Samutsakhon were indicated that their genetic have no differentiation, thus their species should be Pholas orientalis Gmelin, 1791). The Small Piddocks from Samutsakhon had difference band pattern from Big Piddocks, was Martesia striata Linnaeus, 1758.

Keywords: Piddocks or Angle Wings, Electrophoresis, Samutsakhon, Suratthani

* Inland Fisheries Research and Development Bureau ,Department of Fisheries, Kasetklang, Jatujuk, Bangkok 10900 . Tel. 02-5798203
e-mail : sunant @ Fisheries.go.th