

Database of Indian Seafood Safety and Traceability based on AFLP Markers

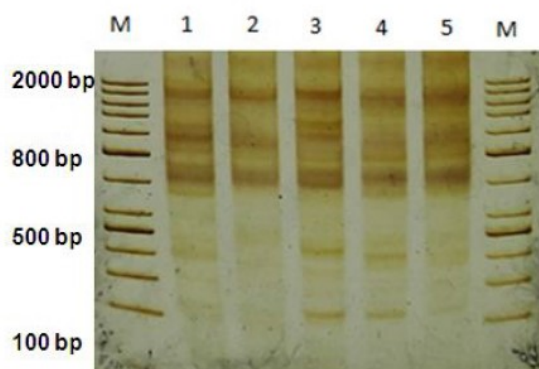
Salient features

- Suitable and reliable Polymerase chain reaction – Amplified fragment length polymorphism (PCR-AFLP) markers for the authentic detection of tuna and seerfish products in comparison with whole unprocessed samples.
- Reliable database for Indian seafood traceability and safety based on AFLP markers selected for the detection of different species of tuna and seerfish products.

Advantages

- ✓ Unique AFLP markers help to devise species specific single step PCR for tuna and seerfish

AFLP profile of different species of Tuna amplified with a combination of *EcoR1*- AGA/ *Mse1*-CTG primer



Lane M- 100 bp DNA ladder, Lane 1- *Euthynnus affinis*,
Lane 2 - *Auxis thazard*, Lane 3 - *Katsuwonus pelamis*,
Lane 4 - *Thunnus albacares*, Lane 5 - *T. obesus*

Process Technology / Product developed by

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| <i>More information</i> | <p>Status of commercialization / Patent / Publication</p> <p>Jeyasekaran, G., Shakila, J.R., Arunkumar, G., Senthilkumar, P. and Sukumar, D. 2014. AFLP- A promising fingerprinting technique for seafood authentication. INFOFISH International, 7: 46-50.</p> <p>Arunkumar, G., Jeyasekaran, G., Shakila, J.R., Arunkumar, G., Senthilkumar, P. and Sukumar, D. Authentication of five Tuna species landed in the Tuticorin coast of Tamil Nadu, India by PCR-AFLP fingerprinting technique. Indian Journal of Fisheries. (Communicated).</p> <p>Jeyasekaran, G., Arunkumar, G., Shakila, J.R. and Sukumar, D. Molecular authentication of three seerfish species available in Tuticorin coast of Tamil Nadu by PCR-AFLP. Food Technology (Communicated).</p> |