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A Method for Detecting Invasive Alien Fish Species



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TECHNOLOGY READINESS LEVEL (TRL)

- TRL 8

PATENT/ GRANTED NUMBER

- UI 2020002482

▶ TECHNOLOGY OVERVIEW

The present invention discloses a method for detecting an invasive alien fish species comprising: extracting a DNA from a fish sample; subjecting the DNA to Loop-mediated Isothermal Amplification by using a primer set of the invasive alien fish species; detecting the invasive alien fish species by visualizing the amplified DNA under UV transillumination; wherein each of the primer sets comprises two outer primer, two inner primer and at least one loop primer; characterized by: the alien fish species comprising *Poecilia reticulata*, *Carassius auratus*, *Betta splendens*, *Pterygoplichthys pardalis*, *Cyprinus carpio* and *Clarias gariepinus*; the primer set of *Poecilia reticulata* comprises SEQ ID NO: 1 to 5; the primer set of *Carassius auratus* comprises SEQ ID NO: 6 to 11; the primer set of *Betta splendens* comprises SEQ ID NO: 12 to 17; the primer set of *Pterygoplichthys pardalis* comprises SEQ ID NO: 18 to 22; the primer set of *Cyprinus carpio* comprises SEQ ID NO: 23 to 27; and the primer set of *Clarias gariepinus* comprises SEQ ID NO: 28 to 32.

CONTACT US!

Dr. Lee Ching Shya, RTTP

UMCIE Business Officer

Email: leecs@um.edu.my

Phone: +603 – 7967 7352 / 013-2250151