EZassay

Point-of-care testing for shrimp pathogens

Rapid Nucleic Acid
Detection of Pathogens

POCT Solutions for On-Site Testings

DNA/RNA Testing, Anytime, Anywhere

Product Introduction

EZassay Biotech™ combines advanced isothermal amplification with visual colorimetric detection for simple, rapid shrimp pathogen testing.

- **High Sensitivity –** Sensitive nucleic acid detection through isothermal amplification
- **Fast & Simple** – Rapid testing with a straightforward workflow
- **Visual Colorimetric Readout** – Easy result interpretation by color change

EZassay Biotechnology Limited

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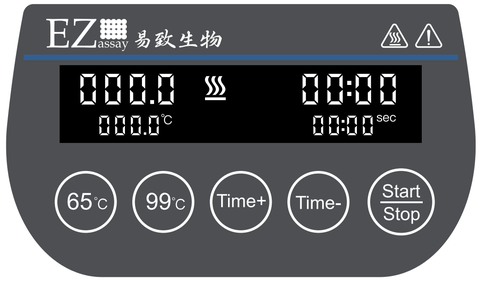
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01/ Prepare the Heating Blocks

1. Switch on two heating blocks.
2. Set Heating Block 1 to 99°C and preheat.
3. Set Heating Block 2 to 65°C and preheat.

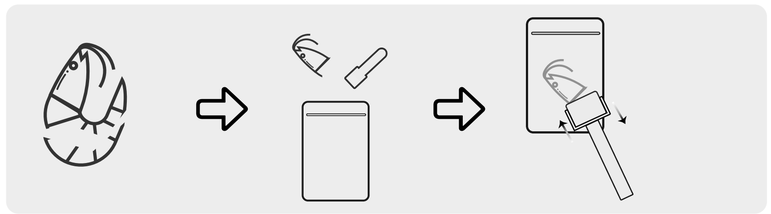


02/ Sample Collection & Prep



Sample | Sterile bag | Purified water | Grinding roller

1. For adult shrimp, collect tissue from the suspected infection site or use one whole shrimp head. For fertilized eggs, juvenile shrimp, and larvae, use whole individuals.
2. Place the sample in a sterile sampling bag.
3. Add all the purified water provided with the kit.
4. Seal the bag and thoroughly homogenize the sample using a grinding roller.

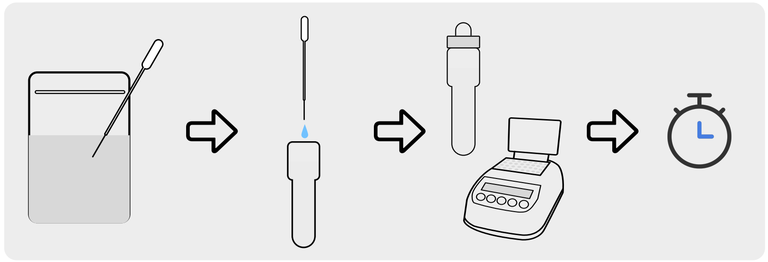


03/ Sample Pretreatment



Tube A | Ground sample | Capillary pipette | Heat block(99°C)

1. Use a capillary pipette to transfer the homogenate.
2. Add **1 drop** to Tube A (Lysis Buffer).
3. Incubate Tube A at **99°C for 10 min.**
4. Remove and allow to stand for 1 min.

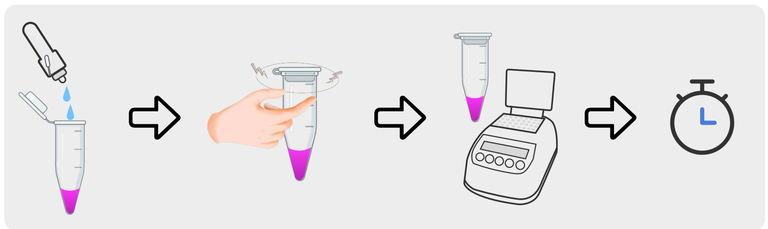


04/ Isothermal amplification



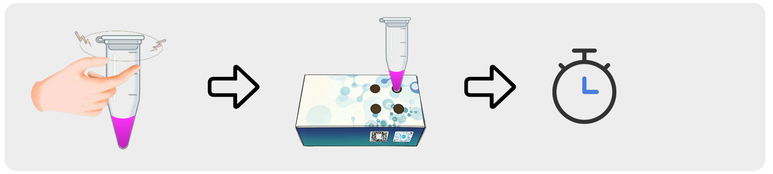
Tube A | Reaction Tube | Heat block(65°C)

1. Carefully open the Reaction Tube.
2. Transfer **2 drops** of the pretreated sample to the Reaction Tube.
3. Gently flick the Reaction Tube 3–5 times to bring the liquid to the bottom.
4. Incubate the assembled tube at 65°C for 30 min.



05/ Result Reading

1. Carefully remove the tube from the heating block.
2. Gently flick the tube to bring the liquid to the bottom, then place it upright.
3. Allow the strip to develop for 3 minutes, then read the result.





Product	Test items	Test sample
Pathogen Detection (Lateral Flow Strip)	White Spot Syndrome Virus (WSSV)	Shrimp head or gills or whole post-larvae
	Acute Hepatopancreatic Necrosis Disease (AHPND)	
	Enterocytozoon hepatopenaei (EHP)	
	Infectious Hypodermal and Hematopoietic Necrosis (IHHNV)	
	Shrimp Hemocyte Iridescent (SHIV)	
	Highly Lethal Vibrio Disease (HLVD)	
	Anguillid Herpesvirus (AngHV)	Eel gill or kidney

Detect early. Act faster.
Protect every harvest.