

Tech Offer – Food Sustainability

Detection Kit for Shrimp Health Monitoring

- Vibrio bacteria is a commonly occurring pathogen that severely affects the mortality rate of fish and shrimp.
- The gold standard for detection and monitoring of Vibrio bacteria is through laboratory testing of water samples.
- AIC has developed a lysis solution that enables bacteria DNA capture using functionalized magnetic particles which enables rapid detection through a colorimetric LAMP assay
- The assay was able to detect at a lower range i.e. < 1000 CFU/mL that aids in the monitoring and management of Vibriosis disease in the shrimp culture farms with early mortality syndrome (EMS) or V.harveyi production diseases with appropriate therapeutic options.

