



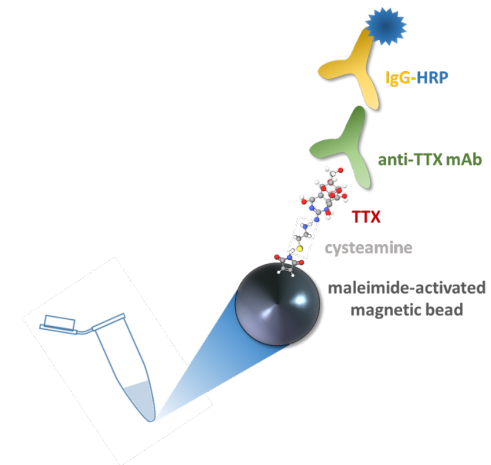
TETRODOTOXINS IMMUNOASSAY

Novel Magnetic Bead-Based Design



Key Benefits

- Fastest assay time on the market (70min)
- Validated for three species of shellfish
- Excellent inter and intra assay precision
- Lowest limits of detection (LODs) globally
- Oysters and razor clams - 1ppb
- Mussels - 3.3ppb



Step Process of Sample Preparation



Step One
De-shell fish and homogenise



Step Two
Weigh 1g of homogenate



Step Three
Add 1 mL of acetic acid to homogenate



Step Four
Vortex samples at 2500 rpm for 5 minutes



Step Five
Incubate samples at 100°C for 10 minutes



Step Six
Allow samples to cool and repeat vortexing step



Step Seven
Centrifuge samples at 4500 rpm for 10 minutes



Step Eight
Filter supernatants into clean glass tubes

Step Process of TTX Detection Assay



Step One
Transfer 200 µL of MB-TTX Conjugate (per sample) into 0.5-mL tube and place on magnetic rack



Step Two
Remove supernatant, add 100 µL of Standard or sample and 100 µL of Antibody Solution



Step Three
Incubate tubes on sample mixer for 30 min



Step Four
Place tubes on magnetic rack and wash 3 times with 200 µL of diluted Wash Buffer



Step Five
Add 200 µL of IgG-HRP and incubate tubes on sample mixer for 30 mins



Step Six
Place tubes on magnetic rack, wash three times and transfer 50 µL of final wash into new 0.5mL tube



Step Seven
Add 125 µL of Substrate and rotate tubes on sample mixer for 10



Step Eight
Place tubes on magnetic rack, transfer 100 µL onto microtitre plate and immediately read absorbance at 620nm.