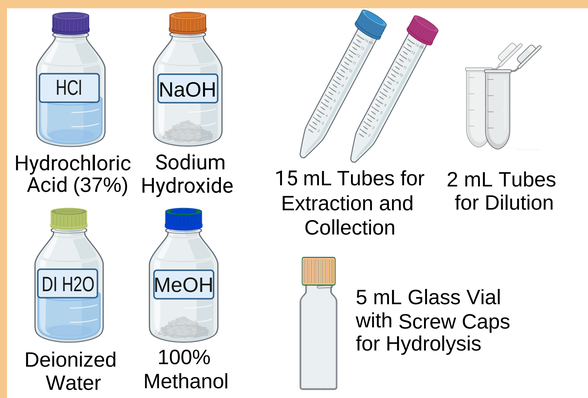
DSP Alert

Version: ALRT-DSP-KIT (C3.1)

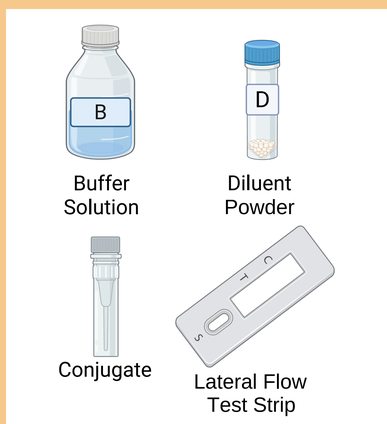
Rapid Test for detection of Okadaic Acid in Shellfish (Centrifuge)

KIT COMPONENTS SUPPLIED BY CUSTOMER



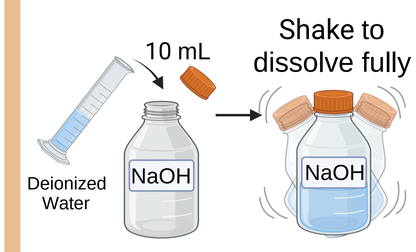
Do NOT re-use any tubes for multiple samples due to a high risk of contamination. Dispose of the tubes after single use

KIT COMPONENTS SUPPLIED BY SENSOREAL



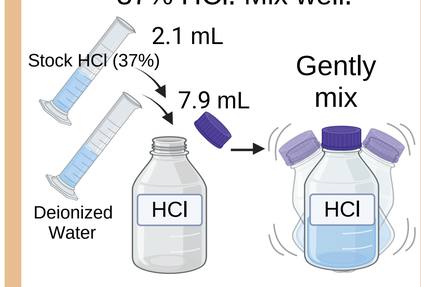
PREPARING SODIUM HYDROXIDE SOLUTION ('NaOH')

Label a bottle "NaOH". Dissolve 1g Sodium Hydroxide (NaOH) in 10 mL DI water.



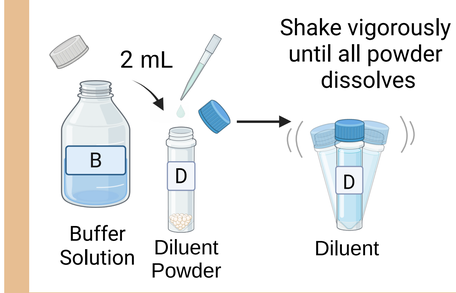
PREPARING HYDROCHLORIC ACID SOLUTION ('HCl')

Label a bottle "HCl". Add 7.9 mL DI water, then slowly add 2.1 mL 37% HCl. Mix well.



PREPARING THE DILUENT

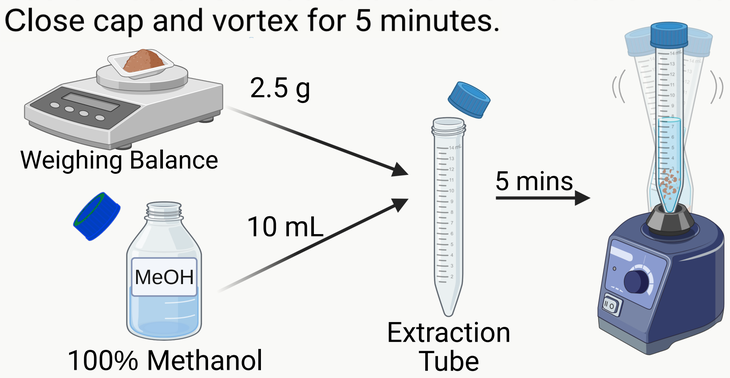
Pipette 2 mL of Buffer Solution "B" and dispense into Diluent powder bottle "D"



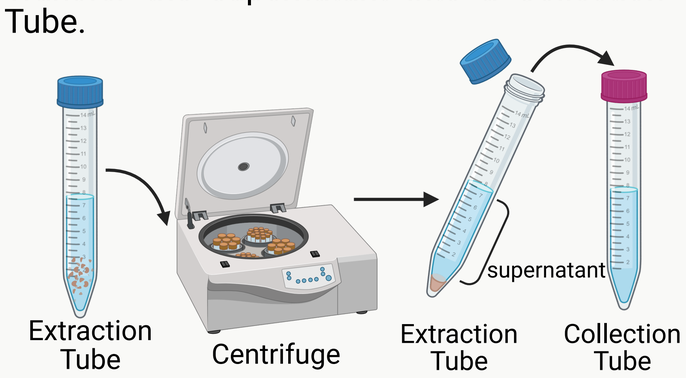
PART A: TOXIN EXTRACTION

1. Shuck the shellfish. Use at least 100 g of meat as a representative sample. Strain excess liquid from shellfish. Blend the meat with a blender.

2. Weigh out **2.5 g of your sample** and **10 mL of 100% Methanol**. Add both to the Extraction Tube. Close cap and vortex for 5 minutes.

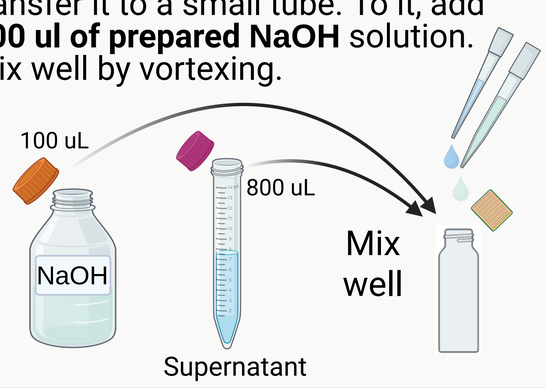


3. Centrifuge at 4000 rpm for 5 minutes. Transfer the supernatant into a Collection Tube.

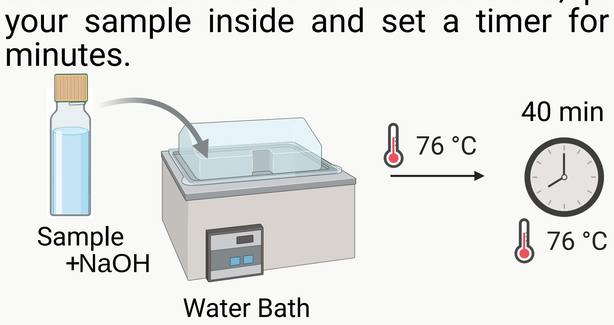


PART B: SAMPLE PREPARATION

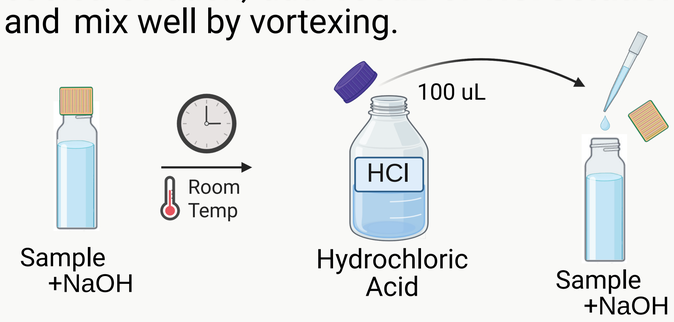
4. Take **800uL of the supernatant** and transfer it to a small tube. To it, add **100 ul of prepared NaOH** solution. Mix well by vortexing.



5. Prepare a water bath or a heating block. **Closely monitor the temperature with a thermometer**. Once it reaches 76°C, place your sample inside and set a timer for 40 minutes.

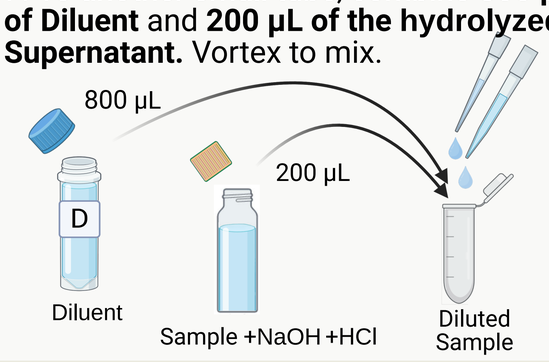


6. After 40 minutes, take the tube out and allow to cool to room temperature. To the cooled solution, add **100uL of HCl solution** and mix well by vortexing.

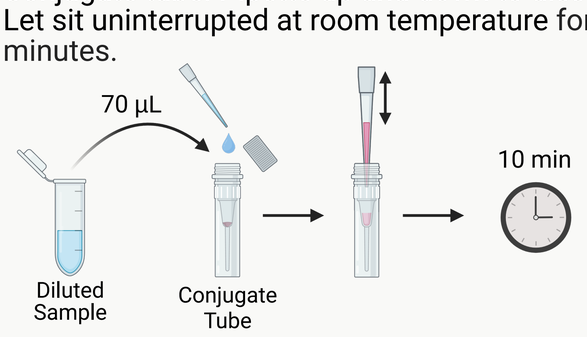


PART B: USING THE LFA

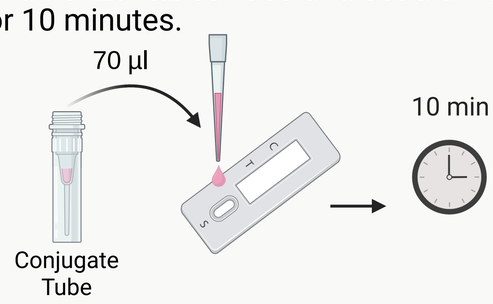
7. To another small tube, combine **800 µL of Diluent** and **200 µL of the hydrolyzed Supernatant.** Vortex to mix.



8. Add **70 µL of the diluted sample** to the Conjugate tube. Pipette up and down to dissolve. Let sit uninterrupted at room temperature for 10 minutes.

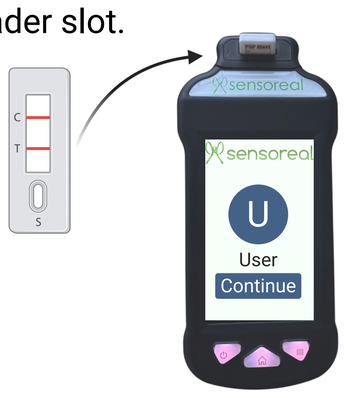


9. Add **70 µl of the Conjugate mix** to the test cassette. Leave the cassette on a horizontal surface and set a timer for 10 minutes.

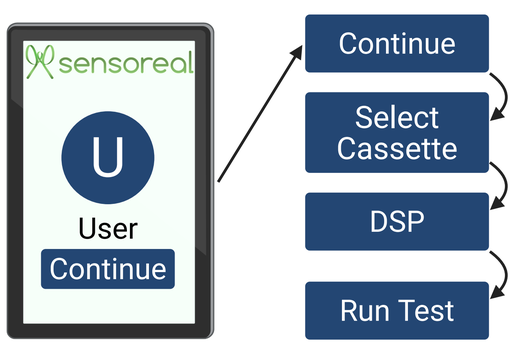
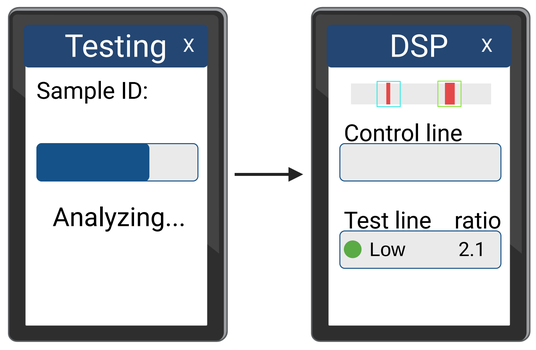


SENSOREAD - INTERPRETING THE RESULTS

Insert the cassette into the reader slot.



Follow the steps on the screen.



Test results will be displayed after a few seconds.