The marine toxins:

saxitoxin: paralytic shellfish poison

made by microalgae [RED TIDE]--after produced enter shellfish. They block Na+ channels and this results in almost instant death once in the blood stream

assay: blend 15-20 clams, boil 5 minute in 0.1 N HCl, adjust pH to 3, inject into mice or rabbits, death if positive--check time until death. detection limit is 40 microgram/100g and the legal limit is twice that much.

tetrodotoxin: Fugu poison --same symptoms as saxitoxin

brevetoxin: neurotoxic shellfish poison

Cigutoxin: Ciguatera fish poison

Domoic Acid: amnesic shellfish poison