



# AMT kit

## *Aquaculture Modular Training kit*

### A Complete Teaching Support TP + TD

**Context:** Initiation to viral detection techniques used in modern fish farms.

The *White Spot Syndrom Virus* (WSSV) and the *Infectious Hypodermal and Hematopoietic Necrosis Virus* (IHHNV) are two viruses targeting several types of breeding in aquaculture (shrimp, crab, crayfish...) against which aquaculturists are fighting.

**Proposal:** A practical exercise of molecular biology coupled with tutorials of bioinformatics to enable students to understand and manipulate modern diagnostic tools.



### This kit enables:

- Extraction, purification and amplification of nucleic acids by PCR
- Analysis of nucleic fragments by electrophoresis
- Virus detection by membrane hybridization
- Search of nucleic sequences in a database

### Kit components for 24 tests

- 24 ready-to-use membranes
- 1 microplate of 24 wells
- 24 PCR tubes
- Clamp
- User's manual
- Positive and negative DNA samples (plasmids)
- Optional: Real-Time PCR module

### For courses in Biology

BTS Biology, IUT Biological Engineering, Biotechnology School, Engineering Schools