



HMT kit

Human health Modular Training kit

A Complete Teaching Support TP + TD

Context: Immersion in a medical analysis laboratory using detection techniques targeting two frequent pathogens in humans: the herpes virus, which is transmitted mainly by contact of oral mucous membranes and causing infections in or around the mouth (orofacial/labial herpes), and the *Staphylococcus aureus*, which causes different types of infections more or less severe.

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

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