

EDMYC: new *in vitro* tuberculosis diagnostic kit

tuberculosis / *in vitro* diagnosis / mycobacteria / electrochemistry / medicine / health



CONTEXT

The detection of mycobacteria in biological samples currently has several drawbacks, including delayed results for culture methods, expensive equipment and qualified personnel for PCR techniques.

DESCRIPTION

EDMYC (Electrochemical Detection of MYCobacteria) technology consists of an *in vitro* diagnostic kit to quickly detect the presence or absence of mycobacteria in respiratory samples.

The innovation is based on the electrochemical detection of the enzymatic activity of the Ag85 antigen in the presence of the p-AP-OG substrate and the trehalose co-substrate. This activity is specific to mycobacteria, which allows to highlight tuberculosis.

The electrochemical method allows to analyse turbid and coloured samples, to carry out a quantified measurement with good sensitivity and to ensure the use of low-cost, small and portable equipment.

COMPETITIVE ADVANTAGES

- **Easy to implement:** no need for qualified personnel and it can be used in laboratories
- **Quantitative measurement:** objective interpretation and traceability of the result
- **Fast, robust and portable method**
- **Modest instrumental cost**



Markets & applications

Human and veterinary medicine:

- ❖ *In vitro* tuberculosis diagnosis



Development stage

Validation of the method on patient samples (TRL 6)



Research team

Agroecology UMR of Dijon (France)
University of Burgundy - INRA



Intellectual property

International patent registered on
March 29, 2018 (WO2018178578)



Target partnership

Patent licensing

CONTACT-US

Ludmila MONTEIRO

Business Development Manager

+33 (0)6 31 10 21 21

✉ ludmila.monteiro@sayens.fr