

Method for the liquefaction of a respiratory sample and for the subsequent detection of respiratory infections in that sample

INVENTORS: Servei de Salut de les Illes Balears; Institut d'Investigació Sanitària de les Illes Balears

HIGHLIGHTS

- ✓ Allows for almost immediate analysis
- ✓ The method does not require any specific laboratory instrumentation

TECH STATUS

- ✓ TRL5
- ✓ PATENT Priority numbers: P202030403
- ✓ Priority date: 07 May 2020

Problem to be solved

The main problem that this innovation solves is the time needed to start testing sputum samples for respiratory infections.

Background and Technology

Respiratory infections often lead to sepsis, especially in patients with COPD and cystic fibrosis. Some of these infections must be detected as soon as possible because they require a different antibiotic treatment than normal due to multiresistance. For this purpose, sputum cultures are currently performed, which can take days to give results and can be critical for the patient's life. Therefore, this innovation with liquefaction makes it possible to disintegrate such solid sputum in less than a minute and thus allow various types of analysis that take less time than cultures to find out which microorganism is infected.

Applications

This kit has the application of being a quick tool to start analysing sputum samples for possible infections that can lead to sepsis and therefore an optimised and cheaper treatment.

Technology status

A method that allows a sputum sample, which is usually dense, to be liquefied in less than 1 minute and to be analysed as soon as possible.

Patent Application number:

PCT application No: WO2021/224529

Title: Method for the liquefaction of a respiratory sample and for the subsequent detection of respiratory infections in that sample.

Collaboration between two applicants:

Servei de Salut de les Illes Balears and

Contact Information:

carlos.enrique@ssib.es – Health Research Institute of the Balearic Islands (IdISBa)



IdISBa

Institut d'Investigació Sanitària de les Illes Balears.

Innovation Portfolio

Market Opportunity

The patent was licensed to NanodecalDx, the first Spin Off from IdISBa in 2022.

Contact Information:

carlos.enrique@ssib.es – Health Research Institute of the Balearic Islands (IdISBa)