

## Highly sensitive and predictive diagnostic test for detecting bacterial meningitis in cerebrospinal fluid

### Domaines d'application

Infectious diseases- In vitro Diagnostic - Rapid Test - Microbiology

### Contexte

Diagnostic of meningitis is often correlated with high proportion of polymorphonuclear neutrophils (PMNs), low glucose and high protein level in cerebro-spinal fluid (CSF). These items are sometimes difficult to be interpreted in case of recent bleeding or recent surgical procedure.

Furthermore, direct bacteriological examination may be negative especially when on-going antibiotic therapies for other infections are continued.

### Description de la Technologie

We propose a rapid and predictive in vitro method to know in less than one hour, if a patient is suspected to have a meningitis. It could be extended to ascite infection, pericardium, pleura, urinary tract or synovia indeed has a bacterial infection.

Adapted from chemiluminescence technology, the method will permit to measure and interpret the production of reactive oxygen species (ROS) by PMNs.

### Stade de Développement

Proof of concept - Clinical data available - Phase Ia on 8 infected patients versus 16 patients without bacterial meningitis infection

### Propriété Intellectuelle

US, EP Patents