



# COVIDISC

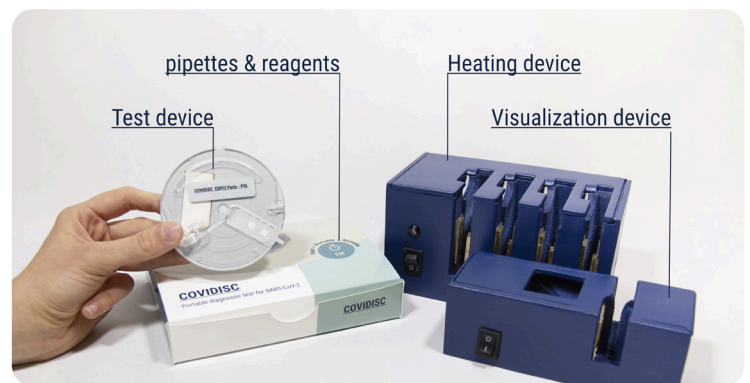
## A quick and reliable Covid test

Imagine a portable Covid test costing just ten dollars that gives results in less than an hour, and with a sensitivity equivalent to that of a PCR test. But this technology, which is set to shake up the diagnostics industry, is no pipedream and it already exists here in France. Its effectiveness has recently been proven and it is now undergoing numerous checks with a view to launching production in the near future.

Carnot IPGG Microfluidique

### Scientific / technological breakthrough

**COVIDISC harnesses two technologies: paper-based microfluidics and Loop-mediated isothermal amplification (LAMP). Paper-based microfluidics can extract the RNA virus by harnessing the capillary forces of a paper membrane, while LAMP technology enhances the amplification phase of PCR techniques, a step used in making copies of these RNA. Whereas PCR testing requires complex and cumbersome equipment — a centrifugation phase for extraction and very specific temperature cycles for amplification — the COVIDISC is a much simpler device that just requires a single heat treatment phase. It can be used to analyse samples out in the field much faster — in less than an hour — with less reagents, using equipment the size of a DVD. It is the only quick test with sensitivity equivalent to that of PCR testing**



### The competitive advantage for the economic stakeholders

COVIDISC is a powerful application that could easily be deployed by local governments, businesses and in public places as a quick, reliable and low-cost solution. Unlike antigen tests and their non-negligible risk of false negative results, with accuracy comparable to that of PCR testing, COVIDISC will provide the best possible epidemiological vigilance. The City of Paris has already ordered 1 000 COVIDISCs after signing a partnership with Bertin Technologies and the technology is now available for licensing and large scale commercial roll-out. It is time for the big corporations in the diagnostics industry to focus on these innovations and use them to manage either this crisis or the next one.

#### Covidisc

Principe d'utilisation

