

The Rapid MiniLab™



Rapid Diagnostics

A modular system based on PCR in a PoC environment that enables multi-sample testing

Rapid Diagnostics gained investment to design a high specificity and sensitivity system capable of considerably speeding up the diagnosis of early stage viral infections and the surveillance of disease outbreaks.

Expertise and domain knowledge

- Consumable design
- Industrial design
- Product concepts
- Prototyping
- Mechanical engineering
- User experience
- PCR sample preparation
- PoC systems
- Medical device regulation
- System architecture
- Product development planning





Our client asked:

Our client wanted a clinical instrument and consumable that would enable their prototype technology to be commercially exploited in the growing Point of Care market.

The project story:

Working closely with Rapid Diagnostics, Sagentia Innovation undertook extensive technical development of core IP components to both improve and protect the technology. It was important to develop and agree the product specifications which required considerable effort in benchmarking, technology landscape research and mathematical modelling.

Sagentia Innovation's software, electronics and engineering teams worked closely together on concept generation of system architectures, which resulted in the successful integration of industrial and technical design requirements in both the system and its complex, yet easy to use, multi-well consumable.

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Results: deliverables and outcomes

- The Rapid MiniLab™ has a “Sample in Results Out” capability using on-board sample preparation
- The system has universally accepted industrial design
- The MiniLab offers versatility through its expandable functionality which enables rapid PoC scale up to meet customers’ needs and changing demand
- The team ensured that the cost of the system consumable was competitive
- The PoC system delivers results equivalent to central laboratory standards and went on to achieve conformity with the requirements of the IVD Directive 98/79/EC for CE Marking

“Sagentia Innovation became an extension of our team. They were extremely competent and confident in the detailed science. They stived to get ever better results out of the design knowing that this would be a key market differentiator.”