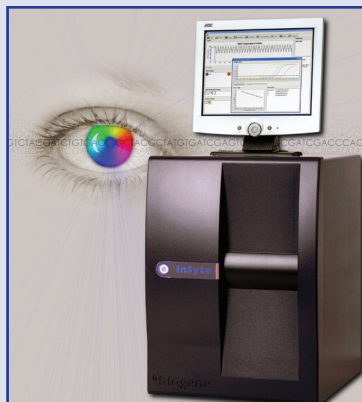


BioGene Ltd - InSyte



GENERAL DESCRIPTION:

The InSyte is a laboratory based instrument for real-time amplification analysis of nucleic acid samples. It uses independent well control, meaning each vessel is individually monitored and can be controlled as such. The unique ability to perform the PCR process in a sub 15 minute time frame along with laser based optics and photon counting detectors enabling capture of the full plate in under one second. The core technology is applicable to a point of care environment with subsequent further development.



TECHNICAL DESCRIPTION:

The system relies on ultra-rapid thermal cycling and the real-time PCR process in tandem with fast and sensitive laser and photon counting based optics. This allows the real-time detection of multiple nucleic acid target species in a single diagnostic run.

CONTACT INFORMATION


BioGene Ltd
BioGene House 6
The Business Centre Harvard Way
Kimbolton Cambs PE28 0NJ United Kingdom

COST

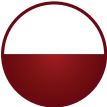
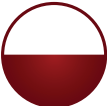


- £62,200.00/system
- £2/analysis

Tier Selection

Final tier assignment is based on overall product score.

 Top Tier
 Second Tier
 Third Tier
 Fourth Tier
  Bottom Tier

RANKINGS

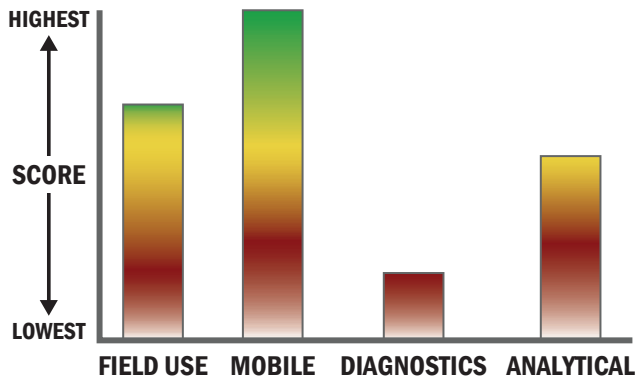
	Biological	Chemical	Radiological
FIELD USE System		N/A	N/A
MOBILE Laboratory		N/A	N/A
DIAGNOSTIC Laboratory		N/A	N/A
ANALYTICAL Laboratory		N/A	N/A

Survey Source

Vendor and Internet Supplied Information

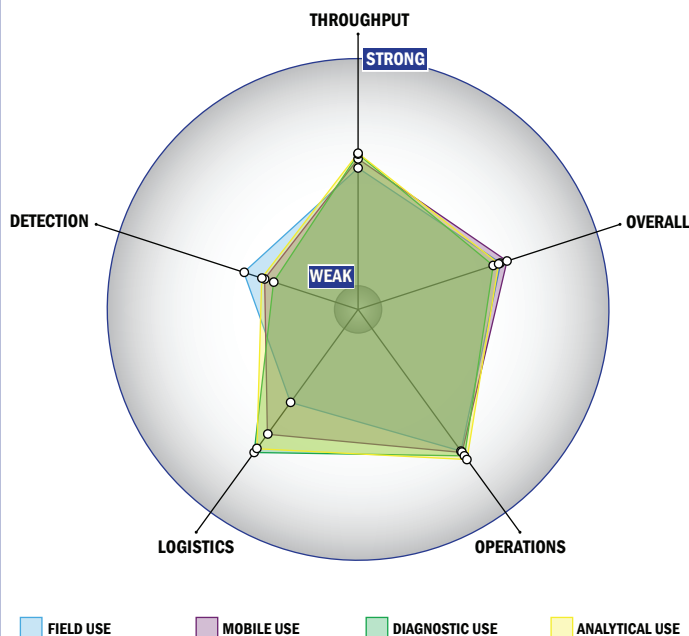
Scoring Analysis

System scores are compared across the four scenarios and ranked from highest to lowest.



Impact Chart

The Impact Chart is a spider graph representing specific categories and designed to give the reader a visual depiction of how a particular system is expected to operate across the four different scenarios. The score for each of the seven categories is presented as the percentage of the total possible score. Higher category scores extend the spokes of a graphic toward the outer edge of the chart. The area graphed for each of the four scenarios relates to how well the system performed in that scenario. Graphics for each of the four scenarios are super-imposed for ease of comparison.



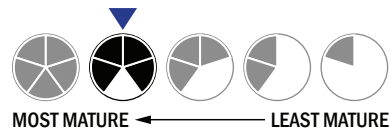
Evaluation Criteria

Throughput:

- Between 15 and 30 minutes for detection
- Multiple samples, multiple tests/sample per run
- Greater than 750 samples every 2 hours
- The system could be adapted to a fully automated system with some effort
- Device or system is intended for multiple detection assays
- 3 solutions, buffer, eluents, and/or reagents
- 2 components
- 10-20 minutes is required for set-up
- 3-5 steps are required for detection

Logistics:

- An afternoon of training and some technical skills required
- Approximately the size of a home dishwasher
- Between 25 and 50 kg
- Wireless and wired connections are available
- System or device has 220V electrical requirement



Operations:

- Can be used from 4 °C to 37 °C
- Components must be stored at 4 °C
- Performance is not influenced by relative humidity
- Between 6 months and 1 year shelf life
- 5-10 years expected life
- Results can be viewed in real-time
- The system could easily be adapted into a fully autonomous system
- The system software is closed and not available for modification
- The system hardware is closed and not available for modification

Detection:

- Less than 50 µL
- 1-100 CFU per mL
- 1-100 PFU per mL
- Manual kit not integrated with the system handles spore lysis