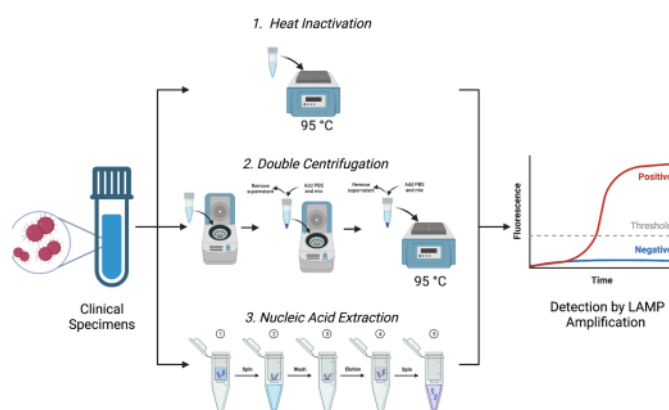


Proprietary LAMP primer sets for rapid molecular detection of globally significant sexually transmitted infections

A robust, commercially ready set of LAMP primers enabling rapid molecular detection of four globally significant sexually transmitted infections in a single streamlined assay. Developed with clinical performance and real-world deployment in mind, the primer sets integrate seamlessly into existing isothermal platforms and support expansion into parallel STI panels.

Applications: Rapid STI diagnosis, multiplexed STI diagnosis, STI surveillance, Sexual health clinic testing



Features

Primer sets engineered for LAMP compatibility, enabling simultaneous detection of *Trichomonas vaginalis* (TV), Herpes simplex virus (HSV), Chlamydia trachomatis (CT), and *Neisseria gonorrhoeae* (GC) within a single isothermal reaction

Benefits

Allows comprehensive STI screening in one assay run, reducing reagent use, sample volume, handling steps, and turnaround time

Features	Benefits
Primer sets designed following extensive bioinformatic analysis and BLAST validation to identify highly conserved, pathogen-specific gene regions	Ensures broad strain coverage while maintaining strict specificity, reducing cross-reactivity and enabling reliable detection across diverse clinical isolates and geographies
Rational primer design significantly reduces self-annealing and non-specific amplification, a known limitation of many LAMP assays	Eliminates primer-dimer-driven false positives, improving assay accuracy and increasing confidence among clinicians, regulators, and diagnostic manufacturers integrating LAMP chemistry
Demonstrated >95% sensitivity and 100% specificity compared with gold standard laboratory-based molecular methods	Provides laboratory-comparable performance in rapid assays, supporting credible molecular POCT development and strengthening the commercial value of any LAMP-based diagnostic kit incorporating these primers

Awaiting patent and Available for

- Co-development
- Consulting
- Licensing

To find out more, contact enquiries@innovation.ox.ac.uk and quote the project number.

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