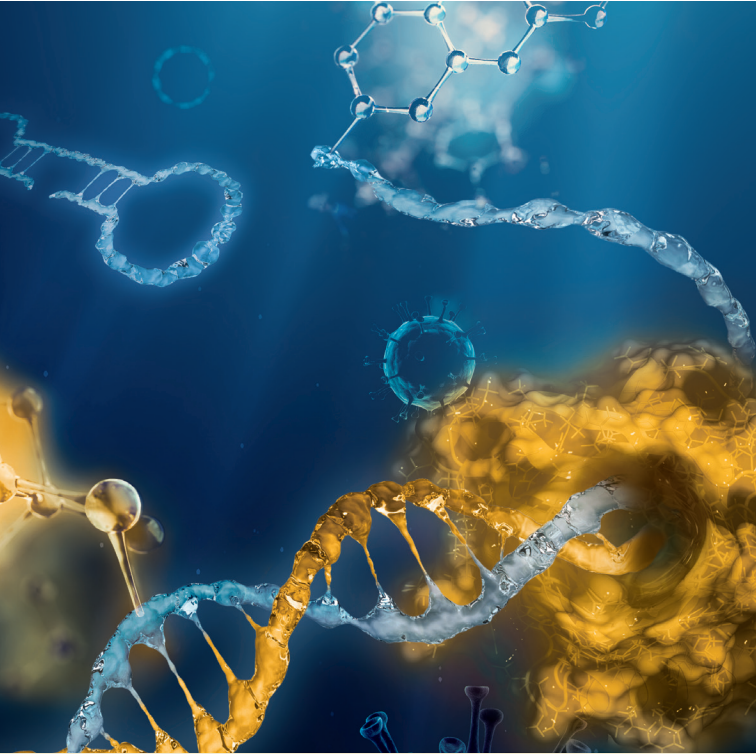


Mediator Displacement LAMP

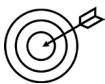


Powerful method for real-time
multiplex detection of
LAMP assays

Offerings & Services

- > Assay design & optimization
- > Kit development
- > Microfluidic platform integration for automation solutions
- > Out-licensing of MD LAMP

Explore the Advantages



Highly specific

- > Probe-based, sequence-specific detection
- > Improved performance compared to intercalating dyes or turbidity measurement



Simplified probe design

- > Universal mediator and reporter molecules
- > Easy adaption to different targets in < 10 min



Fast

- > Real-time detection during LAMP
- > Time to result in less than 10 min



Standardized multiplex format

- > Simultaneous multiple target detection
- > No crosstalk between fluorescence channels
- > Universal molecules efficient for various targets

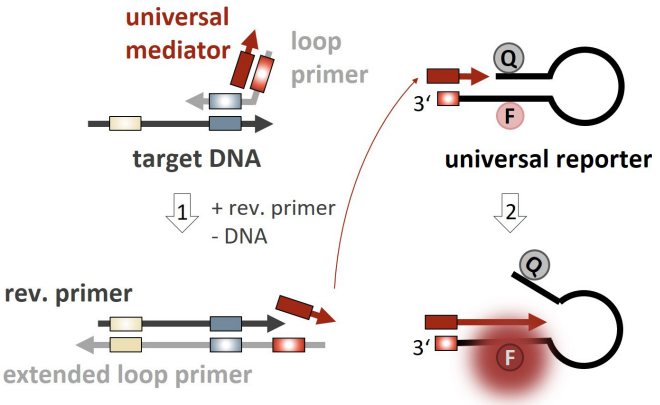


Short development cycles & approval process

- > Production benefits due to universality
- > Reproducible signal-to-noise ratios

Molecular Mechanism

Mediator displacement LAMP is an isothermal, real-time multiplex detection method using mediator displacement probes and universal reporters.



(1) Primer annealing and subsequent extension induces the displacement of the universal mediator from an extended loop primer.

(2) Free mediator hybridizes with the universal reporter and generates a fluorescence signal due to the extension of the mediator.

¹ L. Becherer et al., Anal. Chem., 2018, 90, 7, 4741-4748

² L. Becherer et al., Emerg. Infect. Dis., 2020, 26, 2, 282-288

Contact



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