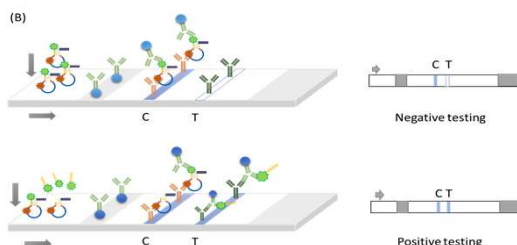


Fluorescent/Electroactive Probes for RT LAMP Amplicons



Application

To solve the current pain points of Reverse transcription loop-mediated isothermal amplification (RT-LAMP), such as target independent signal, DNA intercalations in fluorescent detection, pH changes in colorimetric readout, non-specific detection because of nicks in the DNA cause undesired amplification by BST polymerase.



Technology

Target dependent signal:

- target specific labelled loop probe in one-pot assay

Specific detection:

- Dual specificity confirmation with nicking enzyme and mismatch design

Ultra Rapid detection:

- 6-15mins signal readout

Various readout:

- Target specific visual, Fluorescent and electrochemical readout



Talk to Us

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Advantages

- Reduce the risk of false-positive signals
- Early risk assessment
- Rapid signal readout
- High specificity

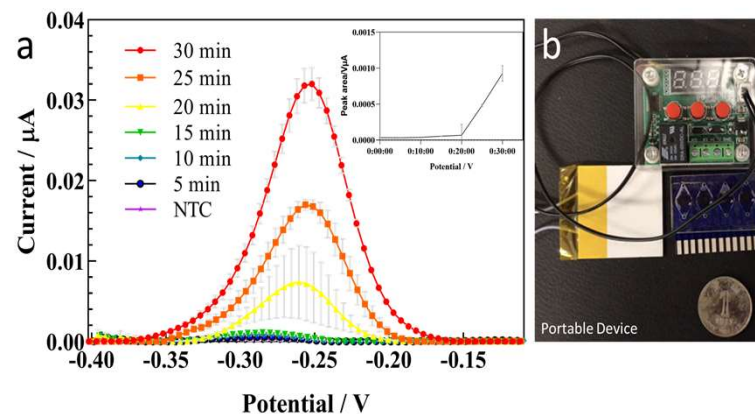


Fig. (left): End-point detection of target DNA using loop probe on lateral flow strip

Fig (right): Real time detection by using electroactive loop probe on a mini size device



Intellectual Properties

US Patent Application: 63/102048

