

Author's Accepted Manuscript

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PII: S0039-9140(18)30830-0
DOI: <https://doi.org/10.1016/j.talanta.2018.08.019>
Reference: TAL18940

To appear in: *Talanta*

Received date: 11 July 2018
Revised date: 3 August 2018
Accepted date: 4 August 2018

Cite this article as: Jong-Gil Kim, Seung Hoon Baek, Seungrok Kim, Hae In Kim, Seung Woo Lee, Le Minh Tu Phan, Suresh Kumar Kailasa and Tae Jung Park, Rapid discriminative detection of Dengue viruses *via* loop mediated isothermal amplification, *Talanta*, <https://doi.org/10.1016/j.talanta.2018.08.019>

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Rapid discriminative detection of Dengue viruses *via* loop mediated isothermal amplification

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ABSTRACT

Dengue virus (DENV) is one of the life-threatening viruses to the human. In this study, we have designed specific novel primers for rapid discriminative detection of DENV-1, DENV-2, and DENV-4 by real-time reverse transcription loop-mediated isothermal amplification (RT-LAMP) reaction. The effect of parameters such as reaction temperature and magnesium sulfate was investigated on the RT-LAMP reaction for detection of DENV RNA. Under the optimal conditions, this method is able to differentiate and to detect DENV within 25 min,

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