

## Certificate of Analysis

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**Product Name:** SARS-CoV-2 LAMP primers (ORF1a)

**Catalog No.:** 7327

**Batch No.:** 1

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### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Appearance:** Colourless liquid

**Storage:** Store at -20°C

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** SARS-CoV-2 LAMP primers (ORF1a)

**Catalog No.:** 7327

**Batch No.:** 1

**Description:**

SARS-CoV-2 LAMP primers (ORF1a) contain a premixed formulation of B3, F3, FIP, BIP, LB and LF clinically validated primers targeting ORF1a of SARS-CoV-2. Supplied at 10x concentration in nuclease free water. Can be used directly in reverse transcription loop-mediated isothermal amplification (RT-LAMP) assays for detection of SARS-CoV-2 as described by Zhang et al (2020). Sufficient quantity for 200 x 25 µL RT-LAMP reactions. No need to resuspend and mix.

**Physical and Chemical Properties:**

Physical Appearance: Colourless liquid

**Storage:** Store at -20°C

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Loan Dao Thi et al (2020)** A colorimetric RT-LAMP assay and LAMP-sequencing for detecting SARS-CoV-2 RNA in clinical samples. *Sci.Transl.Med.* **12** eabc7075. PMID: 32719001.

**Zhang et al (2020)** Rapid molecular detection of SARS-CoV-2 (COVID-19) virus RNA using colorimetric LAMP. Medrxiv - Paper not yet peer reviewed.

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