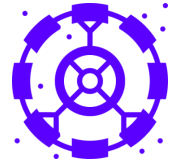


Sep 09, 2020

RNAPath Target Identification via Fluorescent Hybridization

DOI

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XPRIZE Rapid Covid Tes...

RNAPath



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External link: <http://rnapath.com/>

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Protocol status: In development

We are still developing and optimizing this protocol

Created: September 08, 2020

Last Modified: September 09, 2020

Protocol Integer ID: 41823

Keywords: Molecular Instruments, COVID, Microscopy, Hybridization, Fluorescence, RNA,



Materials

MATERIALS

✕ SSC (20X), RNase-free **Thermo Fisher Catalog #AM9770**

✕ Molecular Instruments HCR COVID Probe Set **Molecular Instruments**

✕ Molecular Instruments Alexa Flour 488 B1 HCR Amplifier **Molecular Instruments**

STEP MATERIALS

✕ Molecular Instruments HCR COVID Probe Set **Molecular Instruments**

✕ TE Buffer **Thermo Fisher Catalog #12090015**

✕ SSC Buffer, 20X, 1L **Promega Catalog #V4261**

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Before start













Ensure you have cleaned the workspace with an appropriate RNase away solution to prevent RNA degradation



Sample Preparation

- 1 Suspend RNA pellet in  2 μL TE Buffer
 TE Buffer **Thermo Fisher Catalog #12090015**

Hybridization

- 2 Add  2 μL Molecular Instruments COVID Probe Set to the RNA suspension
 Molecular Instruments HCR COVID Probe Set **Molecular Instruments**
- 3 Place Molecular Instruments Alexa Flour 488 B1 HCR Amplifier in  90 °C for  00:02:00
- 4 Remove Molecular Instruments Alexa Flour 488 B1 HCR Amplifiers and place at  Room temperature for  00:30:00
- 5 Add  2 μL of each Molecular Instruments Alexa Flour 488 B1 HCR Amplifier H1 and H2 to the RNA suspension
- 6 Dilute  100 μL of 20x SSC Buffer to 5x SSC Buffer
 SSC Buffer, 20X, 1L **Promega Catalog #V4261**
- 7 Add  4 μL of 5x SSC Buffer to the RNA Suspension
- 8 Incubate at  37 °C for  12:00:00

Imaging

- 9 Remove sample from incubation and pipette  1 μL onto a glass slide with a coverslip



10 Image slide under a fluorescent microscope with filter cubes for FITC or Alexa Flour 488