

Sep 09, 2020

Sampleholder preparation

DOI

dx.doi.org/10.17504/protocols.io.bky4kxyw

philippe.bechtold¹

¹ETHZ - ETH Zurich

XPRIZE Rapid Covid Tes...



philippe.bechtold

OPEN  ACCESS



DOI: dx.doi.org/10.17504/protocols.io.bky4kxyw

Protocol Citation: philippe.bechtold 2020. Sampleholder preparation. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.bky4kxyw>

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: In development

We are still developing and optimizing this protocol

Created: September 07, 2020

Last Modified: September 09, 2020

Protocol Integer ID: 41724



Disclaimer

DISCLAIMER – FOR INFORMATIONAL PURPOSES ONLY; USE AT YOUR OWN RISK

The protocol content here is for informational purposes only and does not constitute legal, medical, clinical, or safety advice, or otherwise; content added to **protocols.io** is not peer reviewed and may not have undergone a formal approval of any kind. Information presented in this protocol should not substitute for independent professional judgment, advice, diagnosis, or treatment. Any action you take or refrain from taking using or relying upon the information presented here is strictly at your own risk. You agree that neither the Company nor any of the authors, contributors, administrators, or anyone else associated with **protocols.io**, can be held responsible for your use of the information contained in or linked to this protocol or any of our Sites/Apps and Services.

- 1 The sampleholder contains 9 wells that are preloaded with an RT-qPCR Mastermix as follows:
- 2 Wells 1 to 3 contain probes and primers for the N1 target, wells 2 to 6 contain probes and primers for the N2 target, wells 7 to 9 contain probes and primers for the Human RP target. Wells 7,8,9 contain the respective positive control plasmid
- 3 The mastermix preloaded contains the following:

🧪 2.5 μ L Geneon RT-PCR Mastermix (2x) ,r [M] 500 micromolar (μ M) of each Primer

, [M] 125 micromolar (μ M) TaqMan Probe , [M] 0.05 μ g/ μ L BSA ,

[M] 1 millimolar (mM) MgSO₄ filled up to 🧪 5 μ L with RNase free water per well
- 4 The sample holders with the mix are lyophilized with the following procedure: Freezing in

🌡️ -80 °C

 for

⌚ 02:00:00

 , transfer into precooled lyophilizer at

🌡️ -55 °C

 for

⌚ 03:00:00 at least

 followed by transfer into a dissicator for heating up under vacuum.
- 5 Sample holders are vacuum packaged for further use.