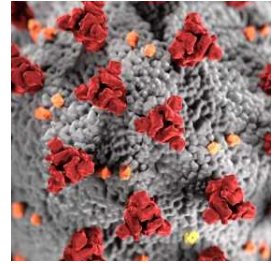


Sep 05, 2020

Qbiotix SARS-CoV-2 protocol

DOI

<https://dx.doi.org/10.17504/protocols.io.bkvckw2w>



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¹Qbiotix

Coronavirus Method De...



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Protocol status: In development

We are still developing and optimizing this protocol

Created: September 05, 2020

Last Modified: September 05, 2020

Protocol Integer ID: 41604

Keywords: novel nucleic acid assay, global microbial detection standard, developed novel nucleic acid assay, need for complex nucleic acid preparation, complex nucleic acid preparation, nucleic acid, qbiotix, variable quality enzyme, reliance on variable quality enzyme, assay, sample preparation procedure

Abstract

Qbiotix has developed novel nucleic acid assays and sample preparation procedures to improve global microbial detection standards and rapidly/inexpensively test high volume of samples. Qbiotix aims to enable countries to test their entire populations, their food, their waters with millions of tests per day on a regular basis.

The assays are isothermal and homogeneous. Thermocycling is not required and amplification is non-enzymatic removing the need for complex instrumentation and reliance on variable quality enzymes. Critically we have removed the need for complex nucleic acid preparation, integrated the assay into the collection/transport solution and significantly reduced reliance on a complex supply chain. The assays remove a good proportion of the constraints of PCR which heretofore have inhibited the number of people being testing for SARS-CoV-2 in the US and globally.

Guidelines

The test should be run in a standard laboratory

Before start

Need to have kits and saliva collection devices provided by Qbiotix. Also need to have calibrated pipettes, tips, a magnetic separator and a microtiter plate analyzer.



- 1 1- collect saliva vial  1 mL in a collection deviprovided by Qbiotix
- 2 2- open vial and scan barcode in a temperature laboratory with temperature between 18 and 25 degrees Celsius.
- 3 3- dispense  250 μ L sample to single well in plate with a standard pipette
- 4 4- dispense  250 μ L of magnetic bead solution in well with a standard pipette in a temperature controlled room with temperature between 18 and 25 degrees Celsius. The bead solution is supplied within a KIT provided by Qbiotix
- 5 5- incubate at controlled temperature on the plate reader  00:10:00
- 6 6- place plate on a magnetic separator  00:00:30
- 7 7- insert plate on analyzer (reading speed depends on chosen plate reader instrument). The plate reader analyzer needs to have with the ability to read fluorescence and control temperature
- 8 6- read results