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# Qbiotix SARS-CoV-2 protocol

vito [1]

[1]Qbiotix

*In Development* dx.doi.org/10.17504/protocols.io.bkvckw2w

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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.

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PROTOCOL CITATION

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GUIDELINES

The test should be run in a standard laboratory

BEFORE STARTING

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 µl** sample to single well in plate with a standard pipette

4 4- dispense **250 µl** 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



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