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🌐 Rapid column Ag test

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1   *Works for me*   dx.doi.org/10.17504/protocols.io.bqdjms4n

Coronavirus Method Development Community   XPRIZE Rapid Covid Testing

B   Berking Biotechnology

ABSTRACT

The "Rapid Ag test based on Alpaca Nanobodies" is a test developed with single domain antibodies. This type of antibody is capable of effectively recognize the Spike protein on the surface of SARS-CoV2 leading a signal that is 10 times stronger than conventional antibodies.

It takes only 16 minutes from sample to result. The procedures for using this test were designed to ensure an easy use and interpretation, making it a quick and simple test.

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MATERIALS TEXT

A	B	C
Equipment	**Supplier**	**Catalog #**
NucleoVac 24 Vacuum Manifold	Macherey-Nagel	740299
Manifold for 24 samples	KNF	046209/049540

A
Kit Content
Sample collection tube
Collection Buffer
Pasteur pipette
Binding buffer
Detection Column
Washing Buffer 1
Washing Buffer 2
Developing solution

SAFETY WARNINGS

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

Please, wear the correct personal protection equipment (i.e. gloves) and wash your hands immediately after removing the gloves.

When working with human saliva and other human bodily fluids, there may pathogens present.

DISCLAIMER:

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BEFORE STARTING

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Please follow this protocol in order to use "The Alpaca Nanobodies Rapid Ag test" correctly and get the accurate results

Sample Collection   5m 30s

1   Add 3 mL of collection buffer to sample collection tube and collect saliva in sample collection tube (3-5mL) wait 5 minutes   5m 30s

Sample Analyse   6m 50s

2   Mix binding buffer tube, load 1 drop of binding buffer into Column connected to a vacuum device   30s

3   Load sample into column, turn on vacuum device, and let sample go through column wait 5 minutes   5m 30s

4   Add 12mL of washing buffer 1, turn on vacuum device, and let washing buffer go through column   15s

5   Add 6 mL of washing buffer 2, turn on vacuum device, and let washing buffer go through column   15s

6   Add 12 mL of washing buffer 1, turn on vacuum device, and let washing buffer go through column   15s

7   Add 1 drop of developing solution   5s

Analysis of the Result   5m

8   Wait 5 min to visualize reaction   5m

blue color = positive, white color = negative