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Alpaca Nanobodies Rapid Ag test

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Works for me

dx.doi.org/10.17504/protocols.io.bk3xkypn

XPRIIZE Rapid Covid Testing



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 8 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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PROTOCOL CITATION

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KEYWORDS

Nanobodies, Ag test, Procedures Rapid test, Rapid CoV-2 Test

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MATERIALS TEXT

Equipment List

Equipment	Supplier	Catalog #
NucleoVac 24 Vacuum Manifold	Macherey-Nagel	740299
Manifold for 24 samples	KNF	046209/049540
Micropipette	Gilson	FA10004P

Kit Content

Sample collection tube

Solution 1. "Binding Solution"
Detection Column
Solution 2. "Washing Buffer"
Solution 3. "Detection Reagent"
Reference paper color

SAFETY WARNINGS

Processing of any sample type which could potentially be positive for SARS-CoV-2 should be conducted in BSL2+ settings. Before starting work with these samples, please contact your local EHS (environment, health and safety) or biosafety office for proper guidance on how to work with these samples

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BEFORE STARTING

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

Sample Collection		5s	
1	Collect saliva in the sample collection tube.		5s
Sample Analyse		6m 5s	
2	Mix saliva sample with 10mL of Solution 1 "Binding Solution" and mix gently for 2 minutes.		2m
3	Add Solution 1 containing the saliva to the "Detection column"		5s
4	Connect the column to the vacuum manifold and let the full content pass through the "Detection columns"		2m
5	Add 20 mL of Solution 2 "Washing Buffer".		2m

- 6 Add 100 μ L of Solution 3 "Detection Reagent" and analyze after 2 minutes: blue color indicates antigen detection. Paper^{2m} colour controls will be provided.