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## Alpaca Nanobodies Rapid Ag test

DOI

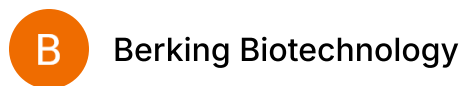
[dx.doi.org/10.17504/protocols.io.bk3xkypn](https://dx.doi.org/10.17504/protocols.io.bk3xkypn)



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**Protocol status:** Working

**We use this protocol and it's working**

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## 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.

## Materials

### 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

## Troubleshooting

## 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

## Before start

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.
- 3 Add Solution 1 containing the saliva to the "Detection column"
- 4 Connect the column to the vacuum manifold and let the full content pass through the "Detection columns"
- 5 Add 20 mL of Solution 2 "Washing Buffer".

2m

5s

2m

2m

## Analysis of the Results

2m

- 6 Add 100  $\mu$ L of Solution 3 "Detection Reagent" and analyze after 2 minutes: blue color indicates antigen detection. Paper colour controls will be provided.

2m