

Summary of an evaluation provided by SKUP | NADAL COVID-19 Ag Test

Manufacturer Nal von Minden GmbH
Supplier Nal von Minden GmbH (requesting company)



Launched in Scandinavia August 2020

Aim

To assess the diagnostic performance and user-friendliness of NADAL COVID-19 Ag Test (Coronavirus disease 2019 Antigen) when used under real life conditions by intended users in dedicated COVID-19 test centres.

Examination Recommended Goals and Results

Overall Sensitivity WHO recommends a minimum performance requirement of $\geq 80\%$ sensitivity compared to a nucleic acid-amplification test (NAAT) reference assay.

Overall Diagnostic Sensitivity was not met: 74 % (90 % CI: 65-82 %)*

Overall Specificity WHO recommends a minimum performance requirement of $\geq 97\%$ specificity compared to a NAAT reference assay.

Overall Diagnostic Specificity was met: 99,7 % (90 % CI: 99,0-99,9 %)*

User-friendliness **Quality goal;** a total rating of "Satisfactory" by SKUP

User-friendliness was fulfilled

Background

Measurement system *In vitro* device, rapid test, for qualitative detection of SARS-CoV-2

Intended users Health care professionals

Sample material Nasal, nasopharyngeal or oropharyngeal specimen, of which the two first were evaluated by SKUP.

Material and methods

Participants 679 persons exposed to individuals with confirmed SARS-CoV-2 infection, of whom 78 (11 %) tested positive on the comparison method.

Comparison method A real time polymerase chain reaction (RT-PCR) method, for detection of SARS-CoV-2 at Først Medical Laboratory in Oslo.

Analytical procedure Subjects exposed to an individual with confirmed SARS-CoV-2 infection were invited to participate in the evaluation. The sampling procedure, performed by trained health care professionals, included one nasopharyngeal swab sample from one nostril for RT-PCR detection, and a second nasopharyngeal swab sample from the other nostril, or a nasal swab sample from both nostrils, for the NADAL COVID-19 Ag Test.

The nasopharyngeal swab for RT-PCR detection was immediately placed into sterile tubes, containing 2-3 mL of viral transport media, until transported to the clinical laboratory.

The nasopharyngeal or nasal swab was placed into the test vial containing extraction buffer and analysed in accordance with the instructions from the manufacturer. Six lots of NADAL COVID-19 Ag Test were used.

User-friendliness Assessed using a questionnaire with three given ratings; satisfactory, intermediate and unsatisfactory

Additional results

Sensitivity stratified on ct-values: <33: 75 %: (90 % CI: 66-82 %)*
<30: 80 %: (90 % CI: 71-87 %)*
<25: 84 %: (90 % CI: 75-90 %)*

Prevalence: 11 %

Positive predictive value (PPV): 97 %

Negative predictive value (NPV): 97 %

Nal von Minden GmbH has accepted the report without further comments

* 90 % CI included for information only