



Time Stamp for Corona Self Test

acib proposes the development of an enzyme-based time stamp for COVID self-tests, which changes its colour 24 hours after the use of the test kit. This technology facilitates the validation of the test results, and helps to avoid mixing up new and used test kits.

BACKGROUND

In early spring 2020 the Corona crises prompted many researchers to develop COVID-19 test kits. Presently, a series of at-home test kits are in use. However, most of these tests do not show when exactly the test was taken. This is a major point of criticism because in many countries tests not older than 24-48 hours are required for certain purposes. acib proposes the development of an enzyme-based colour reaction tool for test-kits, which by inducing a change of colour, verifies that a test-kit was not used more than 24 hours ago.

TECHNOLOGY

In the technology suggested by acib, a stabilised enzyme is either added to the eluent liquid from commercial COVID 19 tests or is applied to the chromatographic test paper in freeze-dried form. This enzyme reacts with oxygen from ambient air. After a defined period of time the enzyme reacts with oxygen and produces a defined colour thus verifying that the respective at-home self-test is not older than the time specified in the certificate.

BENEFITS

- Easy differentiation between new and used test kits
- No cheating by showing old negative tests
- Test kits for at-home testing can be used like certified test kits
- Negative tests can be stored for documentation

EXPERTS

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AVAILABLE FOR

- Full IP Transfer
- License Agreement
- Joint Research Project
- Contract Research

DEVELOPMENT STATUS

TRL 2

KEYWORDS

- SARS-CoV-2
- COVID-19
- Corona self test
- Enzyme Engineering

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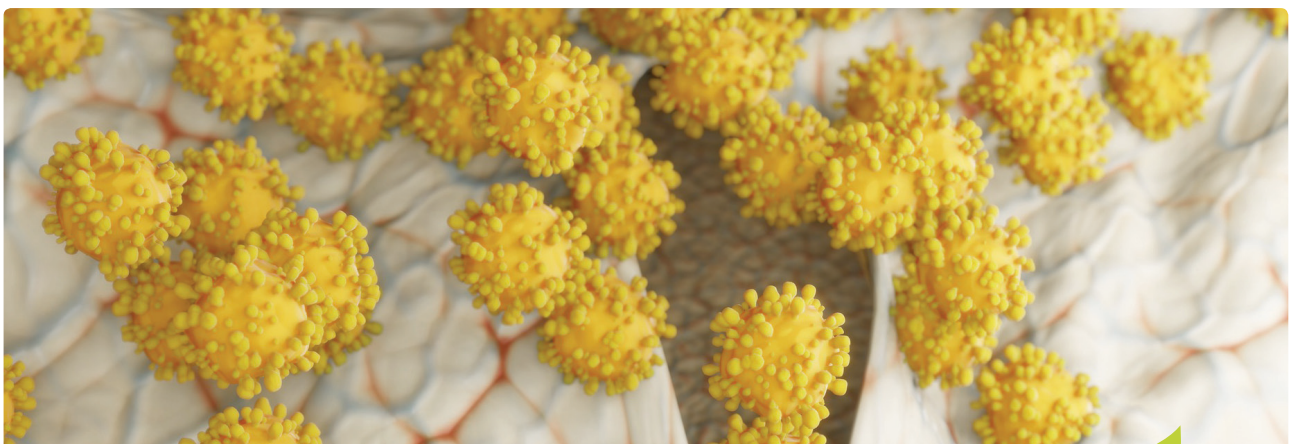


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