Coronavirus Antigen Microarray

Tech ID: 34156 / UC Case 2020-640-0

BRIEF DESCRIPTION

This technology offers a sophisticated approach to detecting coronavirus infections, including COVID-19, and assessing immunity through advanced biochip systems

FULL DESCRIPTION

This cutting-edge technology encompasses multiplexed systems, arrays, microarrays, and biochips designed for the detection of coronavirus presence in samples. It extends to methods for identifying COVID-19 infections and utilizes coronavirus antigen microarrays to analyze human blood for antibodies against various respiratory viruses. This innovation not only identifies past infections but also helps in understanding immunity levels and predicting disease severity.

SUGGESTED USES

· Healthcare diagnostics for hospitals and clinics.

· Research tools for virology and epidemiology studies.

· Public health surveillance and pandemic preparedness.

· Vaccine development and efficacy assessment.

· Personalized medicine for assessing individual risk and immunity profiles.

ADVANTAGES

· Highly sensitive detection of coronavirus infections, including asymptomatic cases.

· Ability to differentiate between various respiratory viruses, including different coronaviruses.

· Insights into immunity levels and potential for more severe disease outcomes.

· Supports large-scale screening and epidemiological studies.

· Facilitates vaccine efficacy studies by monitoring antibody responses.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Published Application	20230324402	10/12/2023	2020-640

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OTHER INFORMATION

KEYWORDS

coronavirus, antigen, microarray, serology

CATEGORIZED AS

- » **Medical**
  - » Diagnostics
  - » Research Tools
- » **Research Tools**
  - » Other

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