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विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY
सत्यमेव जयते

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TECHNOLOGY
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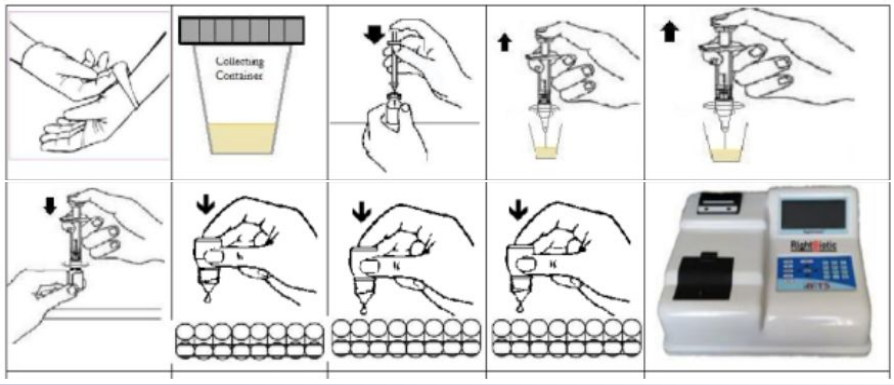
PENDING

(IN202011016006) A process to detect sars-cov-2 virus



NEED

Detecting SARS-CoV-2 in clinical samples is crucial for timely intervention and containment. Current diagnostic methods face challenges with accuracy, cost, and processing time, leaving gaps in rapid diagnosis.

MARKET ANALYSIS

The global diagnostic market for infectious diseases is expected to grow at a CAGR of 5.2% from 2023 to 2033 [Source: Market Research Future, 2023]. Increasing need for rapid and accurate diagnostics drives demand in the healthcare sector.

TECHNOLOGY OVERVIEW

This method offers an in-vitro technique for detecting SARS-CoV-2 through hybridization of viral RNA with specific probes. It utilizes a chromogenic enzymatic reaction, providing a reliable and cost-effective diagnostic solution with optical sensor detection.

Target Industries

Healthcare, Biotechnology, Diagnostics. , Diagnostic kit manufacturers, healthcare laboratories, biotech companies, system integrators for diagnostic systems, R&D in rapid virus detection technologies.

TECHNOLOGY KEY FEATURES

In-vitro detection method for SARS-CoV-2; uses hybridization with specific probes; optical sensor for measurement; cost-effective, fast, and accurate with applications in nasal swabs, saliva, and lung lavage samples.

AT A GLANCE

- SDG 3 (Good Health and Well-being), SDG 9 (Industry, Innovation, and Infrastructure)

Read more here

Technology is available for licensing/ co-development.

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