

Press release



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Bosch's new rapid coronavirus test delivers reliable results in 39 minutes

The world's fastest PCR test for SARS-CoV-2

- Rapid test is particularly suited to decentralized use in mobile test centers.
- Bosch test has a sensitivity of 98 percent and a specificity of 100 percent.
- Simultaneous testing of five people with one test cartridge will also be possible as of early October.
- Bosch is working to further reduce time to result.

Stuttgart, Germany - Bosch has developed a new rapid test for its Vivalytic analysis device to detect the SARS-CoV-2 pathogen. The test provides a reliable result in 39 minutes and is currently the fastest polymerase chain reaction (PCR) test worldwide. Bosch's new rapid test is predestined for decentralized use in mobile test centers at freeway service stations or in airports. People who take the test can obtain a reliable result while at the testing site. Available now in Europe, the CE-approved test helps avoid time in quarantine, relieve laboratories, and make travel and work safer again. "One of the keys to fighting the coronavirus pandemic is to rapidly identify sources of infection. That's why we focused on following up on our first coronavirus test with an even faster one," says Dr. Volkmar Denner, chairman of the board of management of Robert Bosch GmbH. "This will now enable us to put people's minds at ease even more quickly."

The development of the new Bosch PCR singleplex test is part of a research and development project funded by the German Federal Ministry of Education and Research (BMBF). As the federal minister for education and research Anja Karliczek says, "I believe it's important that people have clarity about their state of health as quickly as possible. In this respect, insights from science and research can bring people huge benefits. Over the next few months, we will be confronted with the particular challenge of having to test more people. The improved testing procedure developed by Bosch with the BMBF's support has the potential to be a tremendous help with this complex job. The rapid improvement

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of our technological capabilities shows what innovative achievements German companies can deliver in times of crisis.”

The test has a sensitivity of 98 percent and a specificity of 100 percent. To develop it, the Bosch subsidiary Bosch Healthcare Solutions joined forces with the German biotechnology company R-Biopharm – a leading provider of highly sensitive manual PCR tests. PCR tests are considered the gold standard of test methods.

A world first: simultaneous testing of five samples

Bosch launched the first rapid test for its Vivalytic analysis device at the end of March, after just six weeks’ development. As a multiplex test, it simultaneously checks samples for the SARS-CoV-2 virus and nine other respiratory diseases in two and a half hours. The new, accelerated test is exclusively for SARS-CoV-2. “With our different coronavirus tests and variable analysis strategies, we open up a range of testing scenarios with a Vivalytic device – from screening all the way to supporting differential diagnosis for diseases with similar symptoms,” says Marc Meier, president of Bosch Healthcare Solutions GmbH. And development work is still in full swing at Bosch: As of early October 2020, it will be possible to simultaneously evaluate five samples in one test cartridge and at a comparable speed – a world first, according to the company. Bosch is thus increasing available testing capacity, enabling fully automated processing of more than 160 samples a day using a Vivalytic device. In addition, optimized software will in the next few weeks further reduce the time to result of the SARS-CoV-2 test on positive samples.

Vivalytic analysis device: easy to use at the test site

The advantages of Bosch’s rapid test lie not only in speedy analysis, but also in ease of use. A sample is taken from the patient’s nose or throat using a swab, and placed in the test cartridge. Then the test cartridge, which already contains all the reagents required for the test, is inserted into the Vivalytic device for automated analysis. The Vivalytic analysis device is designed to be user-friendly; medical staff require only brief training on how to operate it. The development of the Vivalytic system, which consists of an analysis device and test cartridges, grew out of a long-standing collaboration between Bosch’s corporate research and advance engineering and Bosch Healthcare Solutions.

By the end of the year, Bosch wants to reach capacity for one million tests. As demand for the analysis device and the rapid tests remains high, the company is working closely with its suppliers to maximize capacity and further increase supply.

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Basic information:

The Bosch Group is a leading global supplier of technology and services. It employs roughly 400,000 associates worldwide (as of December 31, 2019). The company generated sales of 77.7 billion euros in 2019. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. Bosch employs some 72,600 associates in research and development at 126 locations across the globe, as well as roughly 30,000 software engineers.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-two percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The majority of voting rights are held by Robert Bosch Industrietreuhand KG, an industrial trust. The entrepreneurial ownership functions are carried out by the trust. The remaining shares are held by the Bosch family and by Robert Bosch GmbH.

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