



*"We track, so you can observe and profit"*

## Press Release - for immediate release

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### Introducing the Medical & Health Technology eBook

Computer Review announces the interactive Medical & Health Technology eBook directory. The online directory tracks the activity of over 5100 companies in 70 countries daily. The real-time information identifies technology developments and business announcements as they become available.

The eBook reviews companies and research labs developing medical technology, products, and services. They represent the medical & health technology market worldwide.

The information is well organized by companies, markets, news, blogs, executive teams, job listings, and more. You can see a short video description of the real-time information and sources here: <https://youtu.be/u8gAMpasqIY> The real-time database is available online at \$12.95 per month or \$100 per year. For more information and to order: <https://www.computerreview.com/>

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## How to detect coronavirus effectively?

Various tests are used in laboratories for the detection of coronavirus. These tests can be either diagnostic or serological. Diagnostic tests include PCR test and RADT (Rapid Antigen Detection Test). Diagnostic tests are important to detect the presence of coronavirus, while antibody tests only detect the presence of antibodies, which indicates that the patient has interacted with the virus and is now showing an immune response.

RADT is for rapid diagnosis of coronavirus infection but it has low reliability. On the other hand, the PCR test (especially RT-PCR) is more reliable but takes time, almost 6 hours. The kit-method tests have been developed by various pharmaceutical companies. Below is a list of test kits and assays developed by companies.

1. [AltoStar® SARS-CoV-2 RT-PCR Kit 1.5](#): The CE-IVD marked AltoStar® SARS-CoV-2 RT-PCR Kit 1.5 extends the Altona Diagnostics test kit portfolio for the detection of SARS-CoV-2 specific RNA. The assay is intended for use with the automated AltoStar® Molecular Diagnostic Workflow and complements the existing RealStar® SARS-CoV-2 detection kits

for use with open platforms. In addition, Altona provides a corresponding kit for influenza virus detection, the AltoStar® Influenza Screen & Type RT-PCR Kit 1.5.

2. [Cleartest Corona Nasaltest](#): The SARS-CoV-2 Antigen Rapid Test (Nasal Swab) is a chromatographic immunoassay for the qualitative detection of SARS-CoV-2 nucleocapsid protein antigens in anterior nasal swab specimens.

3. [TIB MOLBIOL PCR kits](#): TIB Molbiol was one of the first companies to come to market with a SARS testing kit, and has been supplying COVID-19 PCR test kits since early January 2020.

4. [CerTest Rapid Test](#): CerTest SARS-CoV-2 products (\*) detect SARS-CoV-2 nucleoprotein (N). Certest SARS-CoV-2 Test recognizes the recombinant nucleoproteins of all the different variants analyzed, as expected according to the in silico analysis of the recognition zone. These results have been confirmed with real or spiked samples, whenever this was possible.

5. [CE-IVD COVID-19 kits](#): The kit is based on the principle of Taqman probes. Reverse transcription and cDNA amplification reactions are carried out in one step, allowing 48 samples to be analyzed in a single run of 90 minutes.

6. [SARS-CoV-2 Real Time PCR LAB-KITTM](#): All reagents in one vial, Internal control of real-time PCR reaction, The perfect solution for large and small laboratories resulting in cost reduction.

7. [SensDx assays](#): RT-PCR is regarded as a gold standard of testing; certain inaccuracies have been identified during the Covid-19 pandemic, where inactive RNA residue would result in a false positive diagnosis. SensDx assays are tests for the presence of a live pathogen and do not return false positive results when residual RNA is present in the sample.

8. [Ultra Variant Catcher kit \(RT-27v2, CE-IVD\)](#): Clonit's Ultra Variant Catcher kit (RT-27v2, CE-IVD) can detect and identify the Omicron variant by RT-PCR in just 75 minutes.

9. [ClearEpi™ SARS-CoV-2 Antigen Rapid Test](#): This test qualitatively detects SARS-CoV-2 nucleocapsid which is an antigen. The results can be obtained just within 15 minutes with a high sensitivity of 98.72%.

10. [AusDiagnostics SARS-CoV-2 assays](#): AusDiagnostics SARS-CoV-2 assays are highly sensitive and specific for the detection of SARS-CoV-2. With updated respiratory target panels, you can detect two distinct regions of the SARS-CoV-2 genome concurrently with important seasonal respiratory pathogens.

## RT-PCR for covid detection

This is an important method based on the detection of RNA using the PCR technique; RT-PCR stands for "Reverse transcriptase Polymerase chain reaction".

Molecular genetics is based on the study of DNA and RNA, the genetic material of all living things. DNA is the type of genetic material which is present in more evolved organisms. While RNA is the genetic material in primitive living organisms, especially bacteria and viruses. This technique of covid detection uses RNA of the virus to confirm its presence. But the quantity of viral RNA, usually present in the sample extracted from patients, is too small to be detected. Thus, we use PCR to amplify the amount of extracted RNA. In the

usual type of PCR, special enzymes like Taq polymerase are used to increase the amount of DNA in the sample. But in this case, a modified form of PCR, known as RT-PCR is used. In RT-PCR, a Reverse transcriptase enzyme is used. It is an RNA-dependent DNA polymerase that is capable of converting the RNA sequences to cDNA sequences, which can be easily amplified by Taq polymerase. After this, the amount of DNA is detected easily, and thus, it is confirmed that the patient has been infected with COVID. Other important applications of RT-PCR include detection of expressed genes, examination of transcript variants, and generation of cDNA templates for cloning and sequencing.

### **Advantages of RT-PCR**

1. It has high sensitivity because the amount of template RNA is amplified.
2. It has high specificity as the gene-specific primers are used in the synthesis of cDNA.
3. This technique can be completed in one to two working days providing rapid results.

For more about RT-PCR, see the article on the [Thermo Fischer](https://bit.ly/3w0nR8S) website:  
<https://bit.ly/3w0nR8S>

## **Some important Faqs**

### **What organs are most affected by COVID-19?**

Lungs are the most affected organs by coronavirus as the virus's spikes are highly specific for the receptors on the surfaces of our lung cells and other parts of our respiratory tract.

### **What are the signs and symptoms of coronavirus disease?**

Respiratory parts are the most affected ones and thus, the symptoms are usually cough, shortness of breath, and fever too. If the infection gets severe, the patient may suffer from other problems too, which are pneumonia, severe acute respiratory syndrome, and may even cause death.

### **Can asymptomatic people transmit COVID-19?**

Doctors and researchers have shown their concerns that sometimes, even a person who is not showing any symptoms at all, can also transmit the virus. Such persons are termed "asymptomatic". The reason behind this could be the strong immunity of that person or even the late response from his or her immune system.

### **Can people with mild COVID-19 symptoms recover at home?**

Doctors say that it is better to stay quarantined at your own house if you have mild symptoms. As it would be safe from exposure to any nosocomial pathogens that could make your condition even worse.

### **Who is at higher risk of developing serious illness from COVID-19?**

Immunocompromised patients, children, and people above 40 usually have low immunity which ultimately makes them more vulnerable to infections of all types including corona.

## **About Computer Review, the Publisher.**

Computer Review tracks the daily knowledge economy worldwide. The Active-Track System monitors thousands of technology-specific companies to gather information about products and trends. The data is organized for easy comparison to ensure rapid access to the wealth of competitive information.

Computer Review has been published in print and online for over 50 years. The automated ActiveTrak system has been in production for over 20 years delivering real-time results for sound decisions.

Business analysts, advertisers, market specialists, teachers, and students use real-time information to learn about new technology solutions. Data science robots help you identify the companies, leaders, and markets driving innovation. We specialize in tracking companies and technology to save you time and effort, this short video shows how: <https://youtu.be/u8gAMpasqIY>

### **Attention: Editors, Reporters, Bloggers**

Our next article will introduce the new Computer Review website and explain the real-time database. It will show you how we track the knowledge economy using smart ActiveTrak Bots to monitor thousands of specific companies. You will be able to examine the 40 major technology markets which supply over 95% of the hardware and software used in homes and offices worldwide. As a bonus, we will offer you a free link to the 1000-page online directory for personal use. You can promote it on your website and earn income as a Computer Review sales partner, apply to George at [media@](mailto:media@computerreview.com).

If you have any questions don't hesitate to contact us. We're always happy to help.

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