

**WinterGreen Research, INC.**

**Covid-19 - The Way Forward: Testing**

**Coronavirus Covid-19 Testing: Symptoms, Asymptomatic, and Serology  
for Immunity**

**Mountains of Opportunity**



Picture by Susan Eustis

WinterGreen Research, Inc.

Lexington, Massachusetts

[www.wintergreenresearch.com](http://www.wintergreenresearch.com)

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REPORT # SH28421314

103 PAGES

20 TABLES AND FIGURES

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## CHECK OUT THESE KEY TOPICS

Coronavirus  
Covid-19  
SARS Testing

Patient Testing 2020  
Symptoms Testing  
Asymptomatic Testing

Serology for Testing Immunity

Coronavirus Covid-19 Patient Testing 2020

## US Coronavirus Covid-19 Patient Testing 2020: The Way Forward

LEXINGTON, Massachusetts (April 3, 2020) – WinterGreen Research announces that it has a new study available that describes United States testing for the rapidly evolving COVID-19 pandemic. Testing capability forecasts for PCR assay and Molecular Diagnostics are presented in two week increments for the next 6 months. Availability of Serological testing is also forecast for detection of the virus after recovery. All major vendors are included and can be compared with quantities, qualities, and test time.

Covid-19 Testing 2020: The Way Forward describes the timelines the virus is likely to take regarding quarantines and successive waves of infection. Successive waves of infection are expected to strike the US population after the shelter in place restrictions start to be lifted. Intensive testing is needed at every stage of covid-19 disease management. The testing scenarios and the vendors with good test kits are described in detail.

Successive waves of infection are expected to continue to at least January 2021. One thing that will stop them is if effective vaccine is found. The 2020 study has 96 pages, 12 tables and figures. The tables describe in enormous detail what testing kits are available and the significance of further testing. It describes testing capacity and length of time to administer testing. It describes the impact of testing and the need for serological testing as the quarantines begin to end.

PCR testing – as used by the CDC and WHO initially – is very labor intensive, and has several points along the path of doing a single test where errors may occur – which may lead to headline issues of a false positive, the test showing evidence of the virus when it's not actually there, or a false negative, suggesting someone doesn't have the virus when in fact they do.

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The virus and the resulting disease, Covid-19, have hit Germany with force: According to Johns Hopkins University, the country had more than 91,000 laboratory-confirmed infections by Saturday morning, more than any other country except the United States, Italy and Spain. But with 1,275 deaths, Germany's fatality rate stood at 1.3 percent, compared with 12 percent in Italy, around 10 percent in Spain, France and Britain, 4 percent in China and 2.5 percent in the United States. Even South Korea, a model of flattening the curve, has a higher fatality rate, 1.7 percent.

When the first cases of COVID-19 were reported in the US, two labs at the CDC were the only ones permitted to conduct COVID-19 testing, using a test developed by the agency's own researchers. When the CDC tried to expand testing by providing its test kits to state and local public health labs, there were problems with the initial version of the kits, The CDC, despite initially faulty reagents making its first test kits unreliable, is now offering accurate RT-PCR Diagnostic Panels and positive and human specimen controls.

"Had {the US} done more testing from the very beginning and caught cases earlier," said Dr. Nuzzo, of Johns Hopkins, "we would be in a far different place."

WinterGreen Research is an independent research organization funded by the sale of market research studies all over the world and by identifying next generation technology. It is next generation technology that drives market growth. The company has 35 distributors worldwide, including Global Information Info Shop, Market Research.com, Research and Markets, Report Linker

WinterGreen Research is positioned to help customers facing challenges that define the modern enterprises. The increasingly global nature of science, technology and engineering is a reflection of the implementation of the globally integrated enterprise.

Customers trust WinterGreen Research to work alongside them to ensure the success of the participation in a particular market segment.

WinterGreen Research supports various market segment programs; provides trusted technical services to the marketing departments. It carries out accurate market share and forecast analysis services for a range of commercial and government customers globally. These are all vital market research support solutions requiring trust and integrity.

Keywords: Coronavirus , Covid-19 , SARS Testing, Patient Testing 2020, Symptoms Testing, Asymptomatic Testing, Serology for Testing Immunity, virus testing

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**Companies Profiled**

**Market Leaders Testing Capability, Time to Test**

**Abbott Labs Leverages ID Now Platform w/ Installed Base of 15,000**

**Abbott Labs M2000**

**Thermo Fisher Scientific**

**CDC**

**bioMérieux**

**Danaher / Cepheid**

**Danaher / IDT**

**LabCorp**

**Quest Diagnostics**

**Roche**

**SunSure Biotech**

**OPKO / BioReference Laboratories**

**Hologic**

**Mammoth**

**Other - 260 Companies**

**Coronavirus Covid-19 Patient Testing 2020**

**Report Methodology**

This is the 842nd report in a series of primary market research reports that provide forecasts in communications, telecommunications, the Internet, computer, software, telephone equipment, health equipment, and energy. Automated process and significant growth potential are priorities in topic selection. The project leaders take direct responsibility for writing and preparing each report. They have significant experience preparing industry studies. Forecasts are based on primary research and proprietary data bases.

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The primary research is conducted by talking to customers, distributors and companies. The survey data is not enough to make accurate assessment of market size, so WinterGreen Research looks at the value of shipments and the average price to achieve market assessments.

Our track record in achieving accuracy is unsurpassed in the industry. We are known for being able to develop accurate market shares and projections. This is our specialty.

The analyst process is concentrated on getting good market numbers. This process involves looking at the markets from several different perspectives, including vendor shipments. The interview process is an essential aspect as well. We do have a lot of granular analysis of the different shipments by vendor in the study and addenda prepared after the study was published if that is appropriate.

Forecasts reflect analysis of the market trends in the segment and related segments. Unit and dollar shipments are analyzed through consideration of dollar volume of each market participant in the segment. Installed base analysis and unit analysis is based on interviews and an information search. Market share analysis includes conversations with key customers of products, industry segment leaders, marketing directors, distributors, leading market participants, opinion leaders, and companies seeking to develop measurable market share.

Over 200 in depth interviews are conducted for each report with a broad range of key participants and industry leaders in the market segment. We establish accurate market forecasts based on economic and market conditions as a base. Use input/output ratios, flow charts, and other economic methods to quantify data. Use in-house analysts who meet stringent quality standards.

Interviewing key industry participants, experts and end-users is a central part of the study. Our research includes access to large proprietary databases. Literature search includes analysis of trade publications, government reports, and corporate literature.

Findings and conclusions of this report are based on information gathered from industry sources, including manufacturers, distributors, partners, opinion leaders, and users. Interview data was combined with information gathered through an extensive review of internet and printed sources such as trade publications, trade associations, company literature, and online databases. The projections contained in this report are checked from top down and bottom up analysis to be sure there is congruence from that perspective.

The base year for analysis and projection is 2019. With 2019 and several years prior to that as a baseline, market projections were developed for 2020 through 2026. These projections are based on a combination of a consensus among the opinion leader contacts interviewed combined with understanding of the key market drivers and their impact from a historical and analytical perspective.

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The analytical methodologies used to generate the market estimates are based on penetration analyses, similar market analyses, and delta calculations to supplement independent and dependent variable analysis. All analyses are displaying selected descriptions of products and services.

This research includes referencde to an ROI model that is part of a series that provides IT systems financial planners access to information that supports analysis of all the numbers that impact management of a product launch or large and complex data center. The methodology used in the models relates to having a sophisticated analytical technique for understanding the impact of workload on processor consumption and cost.

WinterGreen Research has looked at the metrics and independent research to develop assumptions that reflect the actual anticipated usage and cost of systems. Comparative analyses reflect the input of these values into models.

The variables and assumptions provided in the market research study and the ROI models are based on extensive experience in providing research to large enterprise organizations and data centers. The ROI models have lists of servers from different manufacturers, Systems z models from IBM, and labor costs by category around the world. This information has been developed from WinterGreen research proprietary data bases constructed as a result of preparing market research studies that address the software, energy, healthcare, telecommunications, and hardware businesses.

## YOU MUST HAVE THIS STUDY

### Covid-19 - The Way Forward: Testing

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#### Coronavirus Covid-19 Patient Testing 2020: Executive Summary

The study is designed to give a comprehensive overview of the Coronavirus Covid-19 Patient Testing 2020 market segment. Research represents a selection from the mountains of data available of the most relevant and cogent market materials, with selections made by the most senior analysts. Commentary on every aspect of the market from independent analysts creates an independent perspective in the evaluation of the market. In this manner the study presents a comprehensive overview of what is going on in this market,

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## ABOUT THE COMPANY

**WinterGreen Research**, research strategy relates to identifying market trends through reading and interviewing opinion leaders. By using analysis of published materials, interview material, private research, detailed research, social network materials, blogs, and electronic analytics, the market size, shares, and trends are identified. Analysis of the published materials and interviews permits WinterGreen Research senior analysts to learn a lot more about markets. Discovering, tracking, and thinking about market trends is a high priority at WinterGreen Research. As with all research, the value proposition for competitive analysis comes from intellectual input.

**WinterGreen Research**, founded in 1985, provides strategic market assessments in telecommunications, communications equipment, health care, Software, Internet, Energy Generation, Energy Storage, Renewable energy, and advanced computer technology.

Industry reports focus on opportunities that expand existing markets or develop major new markets. The reports access new product and service positioning strategies, new and evolving technologies, and technological impact on products, services, and markets. Innovation that drives markets is explored. Market shares are provided. Leading market participants are profiled, and their marketing strategies, acquisitions, and strategic alliances are discussed. The principals of WinterGreen Research have been involved in analysis and forecasting of international business opportunities in telecommunications and advanced computer technology markets for over 30 years.

The studies provide primary analytical insight about the market participants. By publishing material relevant to the positioning of each company, readers can look at the basis for analysis. By providing descriptions of each major participant in the market, the reader is not dependent on analyst assumptions, the information backing the assumptions is provided, permitting readers to examine the basis for the conclusions.

WinterGreen Research is positioned to help customers facing challenges that define the modern enterprises. The increasingly global nature of science, technology and engineering is a reflection of the implementation of the globally integrated enterprise. Customers trust wintergreen research to work alongside them to ensure the success of the participation in a particular market segment.

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## About The Principal Authors

**Susan Eustis**, President, co-founder of WinterGreen Research, is a senior analyst. She works in the area of innovation and next generation technology. She has done research in communications, healthcare equipment, and computer markets and applications. She holds several patents in microcomputing and parallel processing. She has the original patents in electronic voting machines. She has new patent applications in format varying, multiprocessing, electronic voting, and oxygen management. She is the author of recent studies of the drone and robot marketing strategies, Internet equipment, biometrics, biomaterials, a study of Internet Equipment, Artificial Intelligence, IoT, Worldwide Telecommunications Equipment, Top Ten Telecommunications, Digital Loop Carrier, Web Hosting, Web Services, and Application Integration markets. Ms. Eustis is a graduate of Barnard College. Ms. Eustis was named Top Woman CEO in 2012 by Who's Who Worldwide. She was named Top Woman Market Research Analyst in 2012, 2013, 2014, 2015, 2016, 2018, 2019, and 2020. She has been twice featured on the cover of the Women of Distinction magazine. She was cited in a recent Time Magazine article and major media articles on Youth Sports market growth. She was also featured in recent Wall Street Journal, New York Times, HBO, and London Times articles. Bloomberg has had several quotes regarding cyber currencies and blockchain recently.

**About the WinterGreen Research Team:** The WinterGreen Research Team is comprised of senior analysts that prepare the market research and analysis that is offered to the client and developed using an iterative process to achieve a final study. Typical projects include providing market/viability research. The team can look at how drones can be applied to critical infrastructures safety, including: type of market existing, Barriers, Forecast demand and competitors, SWOT and competitive advantages, Price Analysis, product design recommendations (marketing orientation).

Research is typically for many different regions or localities, for example EU countries including Spain, UK, Nordic, Germany, and France. Typical projects profile the United States and areas of Asia. It is common to three representative countries from South America, Brazil, Argentina, Chile, and Mexico. Representative countries from Asia APAC typically include Japan, China, India, and Australia.

Critical infrastructure safety, including: type of market existing, barriers to entry and to faithful execution of product provision, forecast of demand, market share, SWOT, competitive advantage of major competitors, identification of new technologies and new companies, price performance analysis, product design recommendations, and marketing considerations are typical topics covered.

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