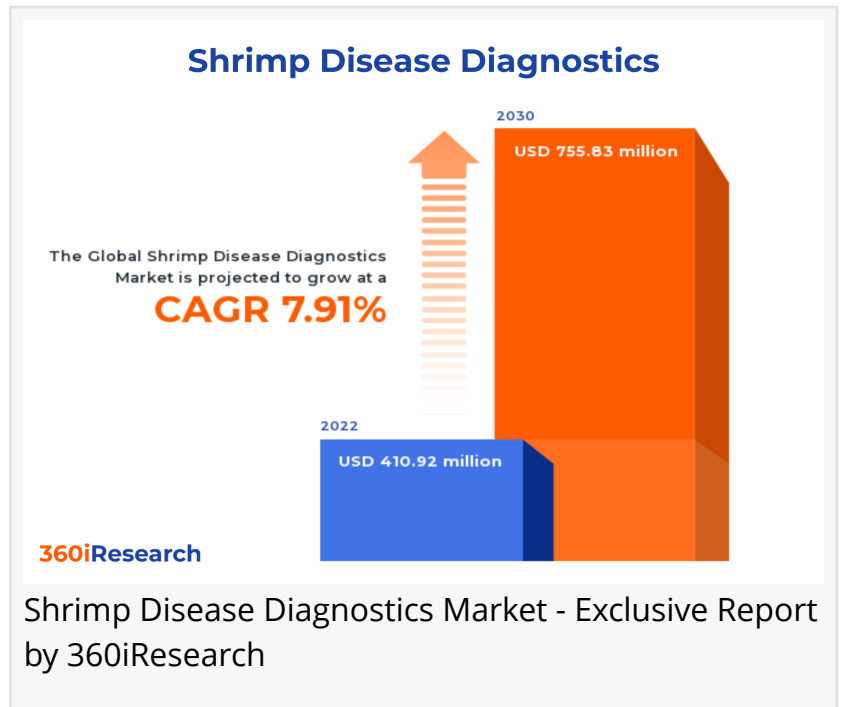


Shrimp Disease Diagnostics Market worth \$755.83 million by 2030 - Exclusive Report by 360iResearch

The Global Shrimp Disease Diagnostics Market to grow from USD 410.92 million in 2022 to USD 755.83 million by 2030, at a CAGR of 7.91%.

PUNE, MAHARASHTRA, INDIA,
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EINPresswire.com/ -- The "[Shrimp Disease Diagnostics Market](#) by Kit (Assay Based Kit, Rapid Testing Kit), Disease (Early Mortality Syndrome, Taura Syndrome Virus, White Spot Syndrome Virus), End User - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.



The Global Shrimp Disease Diagnostics Market to grow from USD 410.92 million in 2022 to USD 755.83 million by 2030, at a CAGR of 7.91%.

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Shrimp disease refers to various infectious and non-infectious conditions that affect the health, growth, and survival of shrimp in aquaculture systems. These diseases can be caused by various pathogens, such as bacteria, viruses, parasites, and fungi. The shrimp disease diagnostics technologies encompass various diagnostics tools such as morphological pathology (direct light microscopy, histopathology, electron microscopy), enhancement and bioassay methods, traditional microbiology, nucleic acid-based PCR assays, and serological methods to detect the prevalence of disease among shrimp population. The growing global demand for seafood products due to consumer preference for healthier protein sources and rising incidences of abiotic and biotic stresses and chronic diseases among the shrimp population has necessitated the deployment of shrimp disease diagnostics tools. However, the high cost of advanced

diagnostic technologies may hinder the adoption of diagnostic tools among small-scale farms or developing countries. Furthermore, the lack of skilled personnel to perform complex diagnostic procedures and the absence of standardized testing protocols for shrimp disease prediction pose hurdles for the adoption of shrimp disease diagnostics strategies. To address these challenges and capitalize on existing opportunities, businesses operating within the shrimp disease diagnostics market should focus on innovation, research-driven product development, and collaboration with stakeholders across the industry. Furthermore, advancements in diagnostic technology and the utilization of nanotechnology for disease diagnosis can propel the growth and adoption of shrimp disease diagnostics.

Kit: Growing adoption of rapid testing kits for quick and easy detection of pathogens
Assay-based kits are laboratory-intensive diagnostic tools that utilize techniques such as polymerase chain reaction (PCR), real-time PCR (qPCR), or loop-Mediated isothermal amplification (LAMP) to detect specific pathogens in shrimp samples. These kits offer high sensitivity and specificity in identifying the presence of viral, bacterial, or fungal pathogens. Rapid testing kits are field-deployable diagnostic tools using technologies such as lateral flow assays (LFAs) or immunochromatographic test strips, which provide quick and easy-to-read results. Rapid testing kits can be used for qualitative detection of certain infections and pathogens such as white spot syndrome virus and infectious myonecrosis.

End User: Rising incidences of shrimp disease outbreaks in fisheries necessitating deployment of shrimp disease diagnostics strategies

Aquaculture and marine laboratories play a crucial role in the early diagnosis and management of shrimp diseases. These facilities typically require advanced diagnostic tools, such as polymerase chain reaction (PCR) assays and enzyme-linked immunosorbent assays (ELISA), for the accurate detection and monitoring of various pathogens affecting shrimp populations. Education and research institutes are vital stakeholders in understanding the causes and transmission patterns of shrimp diseases. They often require cost-effective diagnostic methods that can be used for large-scale studies on shrimp diseases. Fisheries represent an essential part of shrimp disease diagnostics end users who seek rapid on-site testing solutions to minimize losses due to outbreaks. Portable devices and handheld PCR instruments are ideal for such applications, as they provide quick results and require minimal technical expertise.

Disease: Highly contagious nature of white spot syndrome virus (WSSV) necessitating quality PCR and histological tests

White spot syndrome virus (WSSV) is one of the most devastating diseases affecting shrimp. Diagnostic tools for WSSV include PCR-based tests and antigen detection assays. Early mortality syndrome (EMS), also known as acute hepatopancreatic necrosis disease, is caused by specific strains of vibrio bacteria. Diagnosis for this disease requires molecular techniques, such as PCR and histological examinations. Taura syndrome virus is another significant viral disease in shrimp, which adopts PCR and ELISA for detection. Yellow head virus is also a viral disease and primarily adopts immunological methods for disease detection.

Regional Insights:

In the Americas, particularly Latin America and the Caribbean region, shrimp aquaculture is a major source of income for many coastal communities. The United States also has considerable coastal areas focused on aquaculture and shrimp production. In recent years, there has been an increased focus on implementing biosecurity measures to prevent the spread of diseases such as white spot syndrome virus (WSSV) and early mortality syndrome (EMS). There are some regional companies actively involved in research or product development related to shrimp disease diagnostics, and they offer molecular diagnostic services focused on early identification and management of pathogens affecting shrimps. Asia accounts for a large proportion of global shrimp production among China, India, Thailand, Vietnam, and Indonesia and requires proper diagnostics for this region's growing aquaculture sector. The company scenario in the Asian market is characterized by both international players providing a variety of diagnostic assays and instruments, as well as regional companies that focus on developing innovative solutions tailored to local needs. In Europe, countries, including Spain and France, emphasize biosecurity measures and strict monitoring protocols to prevent the introduction of diseases such as WSSV into their domestic farming operations. European countries contribute significantly to the development and production of advanced diagnostic tools for shrimp diseases. Some European institutions engage in research collaborations with aquaculture stakeholders from other regions to help improve diagnostics capabilities globally.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Shrimp Disease Diagnostics Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Shrimp Disease Diagnostics Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Shrimp Disease Diagnostics Market, highlighting leading vendors and their innovative profiles. These include 3 Little Fish Sdn Bhd, Amazing Biotech, Aquaintech Inc., Arachem (M) Sdn Bhd, Bioneer Corporation, Blue Aqua International Pte. Ltd., CD Genomics, China Guangzhou BioKey Healthy Technology Co. Ltd, DSM

Austria GmbH, Forte Biotech, GeneReach Biotechnology Corp., GeneReach Biotechnology Corporation, Genics Pty. Ltd., Illumina, Inc., Innocreate Bioscience Co., Ltd., Lab-Ind Resource Sdn. Bhd., Laboratory Corporation of America Holdings, Mahesh Aqua Holdings (Pvt) Ltd., Mylab Discovery Solutions Pvt. Ltd., PT Riset Nusantara Genetika (Nusantics), Randox Laboratories Ltd., Reagen LLC, Ring Biotechnology Co Ltd., Speedy Assay Sdn. Bhd., SUREBIO, and Thermo Fisher Scientific Inc..

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Market Segmentation & Coverage:

This research report categorizes the Shrimp Disease Diagnostics Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Kit, market is studied across Assay Based Kit and Rapid Testing Kit. The Assay Based Kit is projected to witness significant market share during forecast period.

Based on Disease, market is studied across Early Mortality Syndrome, Taura Syndrome Virus, White Spot Syndrome Virus, and Yellow Head or Gill Associated Virus. The White Spot Syndrome Virus is projected to witness significant market share during forecast period.

Based on End User, market is studied across Aquaculture & Marine Laboratories, Education & Research Institutes, and Fisheries. The Education & Research Institutes is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Americas commanded largest market share of 38.42% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview

5. Market Insights
6. Shrimp Disease Diagnostics Market, by Kit
7. Shrimp Disease Diagnostics Market, by Disease
8. Shrimp Disease Diagnostics Market, by End User
9. Americas Shrimp Disease Diagnostics Market
10. Asia-Pacific Shrimp Disease Diagnostics Market
11. Europe, Middle East & Africa Shrimp Disease Diagnostics Market
12. Competitive Landscape
13. Competitive Portfolio
14. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Shrimp Disease Diagnostics Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Shrimp Disease Diagnostics Market?
3. What is the competitive strategic window for opportunities in the Shrimp Disease Diagnostics Market?
4. What are the technology trends and regulatory frameworks in the Shrimp Disease Diagnostics Market?
5. What is the market share of the leading vendors in the Shrimp Disease Diagnostics Market?
6. What modes and strategic moves are considered suitable for entering the Shrimp Disease Diagnostics Market?

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