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Food Diagnostics Market by Type (Systems, Test Kits, and Consumables), Testing Type (Safety and Quality), Site (Outsourcing Facility and Inhouse), Food Tested (Meat, Poultry & Seafood, Dairy Products, Processed Food) and Region - Global Forecast to 2028

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Abstracts

The global market for food diagnostics is estimated to be valued at USD 16.2 Billion in 2023 and is projected to reach USD 23.5 Billion by 2028, at a CAGR of 7.7% during the forecast period. The food diagnostic market is driven by the increasing number of foodborne illnesses and outbreaks, which has led to global food safety concerns. Foodborne illness outbreaks raise awareness about the risks associated with consuming contaminated food. In response to these outbreaks, there is an increased demand for testing to identify pathogens and contaminants in food products. Governments and regulatory bodies often respond to foodborne illness outbreaks by implementing stricter food safety regulations and requirements. These regulations may include more rigorous testing and monitoring of food products. Food companies must invest in advanced diagnostic tools and technologies to comply with these regulations, thereby boosting the food diagnostics market.

“By type, the systems segment is estimated to be growing at a significant CAGR of 7.9% in the food diagnostics market.”

Systems in food diagnostics refer to microbiological, chemical, and physical analyses through different systems with real-time monitoring and can perform this diverse range of tests, thus becoming indispensable for the safety and quality assurance of food products. The systems can be hybridization-based, chromatography-based, spectrometry-based, immunoassay-based, biosensors, and many other systems. Chromatography can detect and quantify contaminants like pesticides, mycotoxins,

heavy metals, and food additives in food samples. This is essential for ensuring food safety and compliance with regulatory standards. It is also used for the detection of allergenic compounds, and for determining the nutritional content of food. The use of advanced systems in food diagnostics not only ensures regulatory compliance but also fosters consumer trust in an era where transparency and food safety are paramount concerns.

“By food tested, the meat, poultry, and seafood segment is anticipated to be growing at a significant CAGR of 8.5% during the forecast period in the food diagnostics market.”

Food diagnostics are essential in the meat, poultry, and seafood industry to ensure the safety, quality, and authenticity of products. These industries face unique challenges due to the perishable nature of their products and the potential for contamination. Food diagnostics are employed to detect and quantify pathogens such as Salmonella, E. coli, Listeria, and Campylobacter in meat, poultry, and seafood products. These tests help prevent foodborne illnesses and ensure that products meet safety standards. Meat, poultry, and seafood companies use diagnostics to monitor product quality, ensuring that the products meet desired specifications for taste, texture, and freshness. It also helps to determine the shelf life of meat, poultry, and seafood products by monitoring factors such as spoilage organisms, oxidation, and microbial activity. Seafood fraud is a significant issue, and diagnostic techniques are employed to ascertain the exact species of seafood, effectively preventing misrepresentation, and upholding the authenticity of the product.

“Among sites, the outsourcing facility segment is estimated to grow at a CAGR of 8.0% during the forecast period.”

Outsourcing facilities frequently carry out regular testing across diverse parameters, encompassing microbiological, chemical, and physical aspects of food items. This can include the identification of pathogens, allergen screening, nutritional analysis, and more, and thus dominate the food diagnostics market. They provide advanced analytical services utilizing cutting-edge tools and methodologies, such as mass spectrometry, chromatography, and DNA sequencing. These services are instrumental in identifying contaminants, additives, and specific compounds present in food. These entities contribute to maintaining product quality and consistency by performing quality control tests. Their role is to ensure that food products meet defined standards and are devoid of defects or deviations. Outsourcing facilities often collaborate with food companies on research initiatives, aiding in the development and validation of new testing methods, the evaluation of product stability, and the execution of experiments to enhance food quality.

“Europe to grow at a significant CAGR during the forecast period in the food diagnostics market.”

Europe, particularly the European Union (EU), upholds exceptionally stringent food safety regulations. These regulations mandate intensive testing and surveillance of food products to ensure their compliance with stringent safety and quality standards. Consequently, this has generated a substantial demand for food diagnostic kits for regulatory adherence. Europe's food supply chain is notably complex and globalized, encompassing products sourced from various parts of the world. This intricacy necessitates meticulous testing procedures to trace and manage potential contaminants, allergens, and deceptive labeling, all critical for safeguarding consumers.

The break-up of the profile of primary participants in the food diagnostics market:

By Company: Tier 1 – 40%, Tier 2 - 35%, Tier 3 – 25%

By Designation: CXOs – 45%, Manager level – 30%, and C-Level- 25%

By Region: North America – 34%, Europe -36%, Asia Pacific – 16%, South America – 8%, Africa – 4%, and Middle East – 2%

Major key players operating in the food diagnostics market include Bio-Rad Laboratories Inc. (US), Thermo Fisher Scientific Inc. (US), Shimadzu Corporation (Japan), Neogen Corporation (US), BioMerieux (France), Agilent Technologies Inc. (US), Merck KGaA (Germany), QIAGEN (Germany), Bruker (US), and Danaher (US).

Research Coverage:

This research report categorizes the food diagnostics market, by type (systems, test kits, and consumables), by test type (safety and quality), by site (outsourcing facility and inhouse), by food tested (Meat, Poultry, and Seafood, Dairy Products, Processed Food, Fruits & Vegetables, Cereals, Grains, and Pulses, Nuts, Seeds, and Spices and Other Food Tested), and region (North America, Europe, Asia Pacific, South America, Africa, and Middle East). The scope of this report encompasses a comprehensive examination of major factors, including drivers, restraints, challenges, and opportunities, that significantly influence the growth of the food diagnostics market. Extensive research has

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been conducted to analyze key industry players, offering valuable insights into their business overview, product offerings, key strategies, contracts, partnerships, new product launches, as well as mergers and acquisitions associated with the food diagnostics market. Furthermore, the report includes a competitive analysis of emerging startups in the food diagnostics market ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall food diagnostics market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing instances of foodborne illnesses, Initiatives by the regulatory bodies and governments to improve food safety across geographies, Increasing cases of food recalls), restraints (Lack of basic supporting infrastructure in developing countries), opportunities (Technological innovations in testing, Increased budget allocation and expenditure on food safety, Emerging economies to present high-growth opportunities), and challenges (High cost of rapid technologies (hybridization-based, spectrometry-based), Complexity in the quantification of test results, Standardization of testing protocols) influencing the growth of the food diagnostics market.

New Product launch/Innovation: Detailed insights on research & development activities and new product launches in the food diagnostics market.

Market Development: Comprehensive information about lucrative markets – the report analyses the food diagnostics market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the food diagnostics market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Bio-Rad Laboratories Inc. (US), Thermo Fisher Scientific Inc. (US), Shimadzu Corporation (Japan), Neogen Corporation (US), BioMerieux (France), Agilent Technologies Inc. (US), Merck KGaA (Germany), QIAGEN (Germany), Bruker (US), and Danaher (US), and others in the food diagnostics market strategies.

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