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Food Safety Testing Market By Type (Pathogen, Genetically Modified Organism (GMO) , Chemical And Toxin, Heavy Metals, Radioactivity, Others) , By Technology (Agar Culturing, PCR-based Assay, Immunoassay-based, Scintillation Counters And Geiger Counters, AAS And ICP-MS/OES, Others) By Food Tested (Meat And Meat Product, Seafood, Dairy And Dairy Product, Cereals, Grains, And Pulses, Processed Food, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The global Food safety testing market size was valued at $18,713.3 million in 2021 and is projected to reach $37,469.8 million by 2031, registering a CAGR of 7.2%. On the basis of its microbiological, physical, or chemical makeup, food safety testing is a scientific technique that assesses whether food is safe. The testing procedure used to determine the safety of food must be exact, clear, repeatable, standardized, and affordable. Adequate food safety testing can address both rise in global demand for nutritious food and the sustainability of the supply.

Analyzing food products to evaluate their safety for eating is the major objective of food safety testing. Food companies claim that their operations adhere to food safety standards and that they abide by all applicable laws and regulations that are supported by testing. These procedures are crucial for guaranteeing food quality and the finest & safest possible eating experience. The standards for performing food safety tests emphasize on healthy food products delivered to consumers. In addition, food handlers

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and food manufacturers are responsible for conducting food safety testing procedures. Every food firm is required to carry out specified food safety testing and to establish a food safety testing facility. Foodborne infections are a serious and growing public health risk with a high prevalence of morbidity and mortality around the world. Consuming contaminated food or drink that contains 15 or more primary pathogens, such as viruses, bacteria, and parasites, causes more than 90% of health disorders. The two pathogens that have the greatest global impact on human health are salmonella and norovirus. In addition, foodborne diseases typically result in fever, nausea, vomiting, diarrhea, stomach pain, and loss of appetite. The World Health Organization (WHO) estimates that each year, contaminated food causes 600 million cases of foodborne illnesses and 420,000 fatalities worldwide. Moreover, 30% of deaths from foodborne illnesses are caused by children under the age of five. Moreover, 33 million lives are lost worldwide each year as a result of eating unhealthily, according to estimates from the World Health Organization (WHO). As a result, the producers have the chance to present their creative approaches and techniques for testing the safety of food.

The adoption of numerous food safety regulations has spurred the growth of the American industry for food safety testing. The recycling of animal byproducts, the sale of commodities after their 'use by' date has passed, the introduction of hazardous additives, and inappropriate food handling techniques are some of the most common food fraud tactics. Food borne illnesses, which can ultimately result in death, are brought on by consuming food that has been contaminated with radioactive and dangerous substances. The implementation of stringent restrictions by a number of leading food safety agencies, including the U.S. Food and Drug Administration (FDA) and Centers for Disease Control and Prevention (CDC), to stop consumer disease and food fraud, is expected to boost the U.S. food safety testing industry. The market for food safety testing is anticipated to expand as a result of an uptick in cases of food debasement, such as adulterations, pesticides, artificial flavor enhancers, and certifications. Moreover, increase in economically motivated adulterations (EMAs) brought on by fierce competition among food producers is expected to increase the demand globally

The market for food safety testing in the U.S. is particularly competitive as a result of the existence of various reliable manufacturers and providers. Furthermore, there has been a significant amount of market consolidation recently, and with the rise in acceptance of food safety testing and technological advancements, this trend is projected to continue. As the global food market has expanded, strong competition has beset food producers. For instance, adding formalin as a preservative to fish and meat items keeps the

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product fresh and hence lengthens its shelf life. However, tampering with food on purpose poses health hazards and has an impact on customers, businesses, and the economy.

The food's quality is purposely decreased to boost profits. Food adulteration includes purposeful addition of substances as well as unintentional contamination during planting, harvesting, handling, transporting, and distributing food products. Food that has been altered is toxic and lacks in key nutrients, both of which are harmful to health and pose a threat to life. The bulk of infected food goods, which include dairy products, shellfish, honey, and many other commodities, are found in the U.S., Latin America, India, and China. Food safety experts ensure that both domestic and imported food products are wholesome and safe for ingestion by people. Without the introduction of Prohibited Acts, individuals can consume food that is safe both domestically and overseas.

To combat the high-profile foodborne infections linked to ready-to-eat foods and fresh food items, such misleading practises must be stopped. As a result, the development of microbial intervention technologies and advancements in food technology to lower, eradicate, and control pathogens from food products have a beneficial effect on the global market for food safety testing. Some of the techniques that are frequently employed in food processing operations include ohmic processing, ultra-high pressure hydrostatic processing, high electric field pulses, radiofrequency (RF) heating, and microwave processing. These procedures involve heating a substance using electromagnetic waves to further pasteurize and sterilize it. To successfully eliminate germs and lengthen the shelf life of a product, various techniques are employed for various food product categories. In addition, the use of rapid test kits shields the business from unintentional food product adulteration, which is anticipated to present prospects for market advancement.

The Food safety testing market is segmented on the basis of type, food-tested, technology, and region. By type, the market is categorized into pathogen, genetically modified organism (GMO), chemical & toxin, and others. On the basis of food-tested, the food safety testing market is fragmented into meat & meat product, dairy & dairy product, cereals, grains, pulses, processed food, and others. By technology, the market is divided into agar culturing, PCR-based assay, immunoassay-based, and others. Region-wise, the market is analyzed across North America (the U.S., Canada, and Mexico), Europe (Germany, France, UK, Italy, Spain, Switzerland, and the rest of Europe), Asia-Pacific (China, India, Japan, South Korea, Australia, and the rest of Asia-Pacific), and LAMEA (Brazil, South Africa, UAE, Saudi Arabia Argentina and the rest of

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LAMEA).

The major players operating in the global Food safety testing are SGS SA, Eurofins Scientific, Intertek Group PLC, Bureau Veritas SA, ALS Limited, T?V S?D, AsureQuality Ltd, DNV GL, Bio-Rad Laboratories and Thermo Fisher Scientific, Inc.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the food safety testing market analysis from 2021 to 2031 to identify the prevailing food safety testing market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

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In-depth analysis of the food safety testing market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

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The report includes the analysis of the regional as well as global food safety testing market trends, key players, market segments, application areas, and market growth strategies.

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Pain Point Analysis

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Regulatory Guidelines

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Brands Share Analysis

Expanded list for Company Profiles

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Per Capita Consumption Trends

SWOT Analysis

Volume Market Size and Forecast

Key Market Segments

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Heavy Metals

Radioactivity

Others

By Technology

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Immunoassay-based

Scintillation Counters And Geiger Counters

AAS And ICP-MS/OES

Others

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Seafood

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Cereals, Grains, And Pulses

Processed Food

Others

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India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Argentina

Rest of LAMEA

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Key Market Players

Eurofins Scientific SE

AsureQuality Ltd

Bureau Veritas SA

DNV AS

TUV SUD AG.

Bio-Rad Laboratories, Inc.

Thermo Fisher Scientific, Inc.

ALS Limited

SGS SA (Soci?t? G?n?rale de Surveillance SA)

Intertek Group plc

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Contents

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CHAPTER 4: FOOD SAFETY TESTING MARKET, BY TECHNOLOGY

CHAPTER 5: FOOD SAFETY TESTING MARKET, BY FOOD TESTED

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CHAPTER 6: FOOD SAFETY TESTING MARKET, BY TYPE

CHAPTER 7: FOOD SAFETY TESTING MARKET, BY REGION

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