

PFAS Testing Market by Consumable Type (Sample Preparation, Chromatography Columns), Technique (LC-MS-MS, GC/MS, NMR, ELISA), Analyte Type (PFOS, PFOA, PFNA, PFHxS), Application (Drinking water, Wastewater, Air, Soil) - Global Forecast to 2028

Market Report | 2023-12-11 | 248 pages | MarketsandMarkets

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Report description:

The global PFAS testing market is projected to reach USD 121 million by 2028 from USD 63 million in 2023, growing at a CAGR of 14.0% during the forecast period. The rise in the adoption of analytical techniques in environmental and food testing is one of the major factors anticipated to boost market growth in the forecasting years. Additionally, the lack of proper approved laboratory methods for PFAS testing other than drinking water affects the growth of the PFAS testing market.

"The sample preparation products segment to hold the largest share of the market in 2023."

Based on consumable type, the PFAS testing market is segmented into chromatography columns, sample preparation products, solvents, reagents, reference materials & analytical standards, membrane & syringe filters, and other products. The PFAS testing market is expected to be dominated by sample preparation products during the forecast period. The sample preparation products are expected to propel due to the rise in the widespread use of sample preparation methods for the detection and identification of low-level analytes in complex sample matrices.

"The technique segment to hold the largest share of the market in 2023."

Based on technique, PFAS testing is segmented into liquid chromatography-mass spectrometry-mass spectrometry (LC-MS-MS), gas chromatography-mass spectrometry (GC/MS), mass spectrometry, NMR spectroscopy, combustion chromatography, ELISA, and other techniques. LC-MS-MS is expected to dominate the PFAS testing market during the forecast period. With the combination of LC and the more recent tandem mass spectrometers, sample analysis has become simple and rapid with little or

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no sample preparation leading to the growth of this market segment.

"The PFOS segment to hold the largest share of the market in 2023."

Based on the analyte type, the PFAS testing market is segmented into Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonic Acid (PFOS), Perfluorononanoic Acid (PFNA), Perfluorohexane Sulfonate (PFHxS), and other analytes. The PFOS segment is estimated to hold the largest market share of the PFAS testing market during the forecast period. PFAS chemical pollutants have been associated with numerous health hazards and rising disease prevalence leads to the increasing adoption of environmental pollution equipment for PFAS such as PFOS.

"The drinking water segment to hold the largest share of the market in 2023."

The application market is segmented into wastewater, drinking water, ground & surface water, air, food & beverages, soil, serum/blood, cosmetics, and other applications. Drinking water accounted for the largest share of the global PFAS testing market in 2022. This can be attributed to the increasing incidence of water pollution-related disorders which, in turn, is increasing the demand for water quality testing.

"The market in the North America region is expected to hold a significant market share for PFAS testing in 2022."

The PFAS testing market covers five key geographies-North America, Europe, Asia Pacific, Latin America, and the Middle East and Africa. In 2022, a significant market share for PFAS testing was held by the market in the North American region. The growing funding for environmental testing & cleanup drives, along with favorable regulations, growing awareness, and the availability of funding for environmental conservation led to the growth of the PFAS testing market in this region.

A breakdown of the primary participants referred to for this report is provided below:

-□By Company Type: Tier 1-25%, Tier 2-30%, and Tier 3- 45%

-□By Designation: Director-level-30%, C-level-23%, and Others-47%

-□By Region: North America-40%, Europe-30%, Asia Pacific-22%, Latin America- 6%, MEA- 2%

The prominent players in the PFAS testing market are Merck KGaA (Germany), Agilent Technologies (US), LGC Limited (UK), Waters Corporation (US), Biotage (Sweden), AccuStandard, Inc. (US), PerkinElmer, Inc. (US), Thermo Fisher Scientific, Inc. (US), Phenomenex (US), MACHEREY-NAGEL GmbH & Co. KG (Germany), and Shimadzu Corporation (Japan), among others.

Research Coverage

This report studies the PFAS testing market based on technique, application, methodology, category, and region. It also covers the factors affecting market growth, analyzes the various opportunities and challenges in the market, and provides details of the competitive landscape for market leaders. Furthermore, the report analyzes micro markets with respect to their individual growth trends and forecasts the revenue of the market segments with respect to five main regions (and the respective countries in these regions).

Reasons to Buy the Report

The report will enable established firms as well as entrants/smaller firms to gauge the pulse of the market, which, in turn, would help them to garner a larger market share. Firms purchasing the report could use one or a combination of the below-mentioned strategies to strengthen their market presence.

This report provides insights on the following pointers:

-□Analysis of key drivers (rising levels of environmental pollution worldwide, increasing efforts from public-private organizations to raise awareness on environment protection, privatization of environmental testing and treatment services, increasing funding activities on wastewater treatment projects/programs, greater regulatory emphasis on effective pollution monitoring and control, and government initiatives for pollution control and environmental testing), restraints (limited public awareness related to effective pollution monitoring strategies across developing markets, stringent storage requirements for PFAS testing reagents and

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analytical standards, and high capital investments for accurate and sensitive analytical testing), opportunities (regulatory agencies to control environmental pollution due to PFAS contamination and growth potential offered by emerging markets), and challenges (inadequate supporting infrastructure and the shortage of skilled professionals and lack of proper approved laboratory methods for PFAS testing other than drinking water) influencing the growth of the PFAS testing market

- Market Penetration: Comprehensive information on the product portfolios offered by the top players in the PFAS testing market
- Service Development/Innovation: Detailed insights on the upcoming trends, R&D activities, and service developments in the PFAS testing market
- Market Development: Comprehensive information on lucrative emerging regions
- Market Diversification: Exhaustive information about new services, growing geographies, and recent developments in the PFAS testing market
- Competitive Assessment: In-depth assessment of market segments, growth strategies, revenue analysis, and services of the leading market players.

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PFAS Testing Market by Consumable Type (Sample Preparation, Chromatography Columns), Technique (LC-MS-MS, GC/MS, NMR, ELISA), Analyte Type (PFOS, PFOA, PFNA, PFHxS), Application (Drinking water, Wastewater, Air, Soil) - Global Forecast to 2028

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