Microplastic Analysis Market by Analyte [Polyethylene, Polystyrene, Polypropylene], Product [Microscopy (Optical, Electron), Spectroscopy (FTIR, Raman, GC-MS, LC-MS), Software, Consumables], Application [Water, Soil, Air], End User - Global Forecast to 2030

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Report description:

The global microplastic analysis market is projected to reach USD 383.1 million by 2030 from USD 266.9 million in 2025, at a CAGR of 7.5% from 2025 to 2030. Factors such as increasing funding and grants supporting research and development, rising proteomics research, and the growing prevalence of life-threatening diseases are contributing to the market's growth.

https://mnmimg.marketsandmarkets.com/Images/microplastic-analysis-market-img-overview.webp

"The instruments segment held the largest share of the market in 2025."
Based on product type, the microplastic analysis market is classified by product type into instrument (microscopy instruments (optical microscopy, electronic microscopy, electronic microscopy), spectroscopy instruments (FTIR spectroscopy, raman spectroscopy, gas chromatography-mass spectrometry (GC-MS), gas chromatography-mass spectrometry (GC-MS)), software & services (integrated software, AI based software), and reagents and consumables. The demand for reagents and consumables in microplastic analysis is being fueled by tightening regulatory frameworks that mandate routine environmental and product-based monitoring, resulting in consistent consumption of filters, stains, solvents, and certified standards. Growing public and industry concern over the health and ecological impacts of microplastics is also prompting sectors such as food & beverages, cosmetics, pharmaceuticals, and water treatment to scale up testing frequency. Technological advancements in analytical workflows, ranging from fluorescent staining and FTIR/Raman spectroscopy to pyrolysis-GC/MS, are boosting the use of specialized consumables designed to enhance detection sensitivity and accuracy. Furthermore, the increasing emphasis on method standardization and

global quality compliance is driving strong demand for high-purity reference materials and validated reagent kits. Rising investments in research programs, microplastic surveillance studies, and the development of automated, high-throughput testing platforms are further accelerating market growth for consumable products.

"The water testing applications segment is projected to register the highest CAGR during the forecast period."
Based on application, the market for microplastic analysis is divided into water testing, soil testing, air testing, and other applications. The water testing segment has a significant share in the application segment.
The water testing segment is witnessing rapid expansion as authorities worldwide tighten mandates for detecting microplastics in drinking water, wastewater, tap water, bottled water, and natural water bodies. Growing public awareness around the potential health risks and ecological damage associated with microplastic pollution is driving utilities, municipal bodies, and private water companies to increase testing frequency and adopt advanced analytical methods. In addition, the emergence of portable and real-time monitoring systems, along with faster sample preparation and processing technologies, is boosting adoption in field-based and laboratory workflows. Stricter water quality regulations and surveillance initiatives in regions such as Europe, North America, and the Asia Pacific are further strengthening market momentum. The growing integration of automated systems, AI-enabled analysis software, and microplastic filtration kits, coupled with rising investments in environmental research and water treatment infrastructure, is positioning water testing as one of the most significant growth engines for the microplastic analysis market.
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"The North American market is expected to witness the highest growth during the forecast period."
The microplastic analysis market, based on region, is divided into five major areas: North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. Among these, North America is anticipated to record the highest CAGR of 8.5% from 2025 to 2030. This growth is primarily driven by increasing environmental and health awareness about microplastic contamination in water, soil, and food systems, as well as the implementation of stringent regulatory measures. Additionally, ongoing advancements in analytical technologies-such as FT-IR, Raman spectroscopy, and automated detection systems-combined with continuous standardization efforts, are enhancing the scalability, accuracy, and cost-effectiveness of microplastic analysis across the region.

A breakdown of the primary participants referred to for this report is provided below:
- By Company Type: Tier 1-48%, Tier 2-36%, and Tier 3- 16%
- By Designation: C-level-10%, Director-level-14%, and Others-76%
- By Region: North America-40%, Europe-32%, Asia Pacific-20%, Latin America-5%, and the Middle East & Africa-3%

The prominent players in the microplastic analysis market are
Thermo Fisher Scientific Inc. (US), Danaher Corporation (US), Agilent Technologies, Inc. (US), Waters Corporation (US), Shimadzu Corporation (Japan), Becton, Dickinson and Company (US), PerkinElmer Inc. (US), Bio-Rad Laboratories, Inc. (US), Bruker (US), and Hitachi High-Technologies Corporation (Japan), among others.

Research Coverage
This report studies the microplastic analysis market based on product type, analyte type, application, end user, 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 micromarkets in terms of their growth trends. It

forecasts the revenue of the market segments with respect to five central regions (and the respective countries in these regions).

Reasons to Buy the Report
The report will assist market leaders/new entrants with information on the closest approximations of revenue numbers for the overall microplastic analysis market and its subsegments. This report will help stakeholders understand the competitive landscape and gain valuable insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

This report provides insights into the following pointers:
-□Analysis of key drivers (Growing public concern over the potential health risks of microplastic exposure in the human body, Rising investments from government bodies and private organizations), restraints (Elevated costs of instruments used for microplastic analysis), opportunities (Expanding growth prospects in developing and emerging markets, Advancement of affordable and portable microplastic detection technologies), and challenges (Limited availability of trained technicians in microplastic detection, Lack of standardized protocols for microplastic detection) influencing the growth of the microplastic analysis market
-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the microplastic analysis market
-□Market Development: Comprehensive information about lucrative markets-the report analyses the microplastic analysis market across varied regions
-□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the microplastic analysis market
-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like
-□Thermo Fisher Scientific Inc. (US), Danaher Corporation (US), Agilent Technologies, Inc. (US), Waters Corporation (US), Shimadzu Corporation (Japan), and others.

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