

# Elemental Analysis Market Segment Forecasts up to 2021, Research Reports- TransparencyMarketResearch

*Transparency Market Research Report Added "Elemental Analysis Market" to its database.*

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/EINPresswire.com/ -- Elemental analysis is a process of detection and quantification of elemental compounds, molecular species and elements. This analysis technique is a part of analytical chemistry and can be qualitative and quantitative in nature. Sample types tested for trace elements comprises of aqueous, non-aqueous, organic and non-organic materials. For organic chemists, elemental analysis refers to CHN analysis, which is used to determine the purity and structure of a compound. In this technique, a sample is burnt in excess of oxygen and thereby collecting combustion products like carbon dioxide, nitric acid and water. The masses of these products are used to determine composition of the sample.



Ultra trace analysis and elemental trace analysis detection range from parts per million (ppm), to parts per billion (ppb) and parts per trillion (ppt) levels, using updated techniques and instruments. Some of the major technologies used for elemental analysis include inductively coupled plasma mass spectrometry, inductively coupled plasma optical emission spectrometry, [X-ray](#) Fluorescence and X-ray Diffraction among others.

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Some of the key driving factors for [elemental analysis market](#) are increasing concern for food safety, increasing usage of X-ray fluorescence in clinical research and growing R&D funding in life sciences. Moreover, this technology has a wide range of application areas in different segments of industry and thus has a major market worldwide. There are other geographical drivers which are also responsible for the growth of the market. In addition, demand from emerging markets across India and China are expected to create opportunities for elemental analysis market in the future. However, high cost of elemental analyzers and urge for efficient professionals act as major restraints to the growth of the market.

Global elemental analysis market can be broadly classified on the basis of types, technology, applications and geography. By types, the market for elemental analysis is segmented into organic and inorganic. The market is divided by technology into destructive and non-destructive technologies. Moreover, elemental analysis has different application areas including food and beverage testing, life sciences, environment testing and geology among others.

Currently North America is dominating the market for elemental analysis in terms of revenue, followed

by Europe and Asia-Pacific. The major factor responsible for immense development of elemental analysis market in North America is rapid technological advancement of this technique in [various application areas](#), such as food and beverage, biotechnology, chemical and semiconductor industries among others. However, Asia Pacific is anticipated to grow at a significant rate in the future, primarily due to increasing awareness for elemental analysis in China and India coupled with rising demand from applied markets. Furthermore, strategic expansion by manufacturers in China and use of modern analysis technique in Chinese medicines are likely to develop the market for elemental analysis in Asia Pacific.

Some of the key players in this market are Thermo Fisher Scientific, Inc. (U.S.), Agilent Technologies, Inc. (U.S.), AMETEK, Inc. (U.S.), PerkinElmer, Inc. (U.S.), Bruker Corporation (U.S.), Shimadzu Corporation (Japan), Elementar Group (Germany) and Rigaku Corporation (Japan) among others.

This research report analyzes this market on the basis of its market segments, major geographies, and current market trends. Geographies analyzed under this research report include

- North America
- Asia Pacific
- Europe
- Middle East and Africa
- Latin America

This report provides comprehensive analysis of

- Market growth drivers
- Factors limiting market growth
- Current market trends
- Market structure
- Market projections for upcoming years

This report is a complete study of current trends in the market, industry growth drivers, and restraints. It provides market projections for the coming years. It includes analysis of recent developments in technology, Porter's five force model analysis and detailed profiles of top industry players. The report also includes a review of micro and macro factors essential for the existing market players and new entrants along with detailed value chain analysis.

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