

# **Heavy Metal Testing Market Type (Arsenic, Cadmium, Lead, Mercury), Technology (ICP-MS/OES, AAS), Sample (Food, Water, Blood), Food Tested (Meat, Poultry, Seafood, Processed, Dairy, Cereals & Grains), and Region - Global Forecast to 2022**

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## **Abstracts**

“Heavy metal testing market projected to grow at a CAGR of 7.6%”

The heavy metal testing market is estimated to be valued at USD 2.53 billion in 2017 and is projected to reach USD 3.65 billion by 2022, at a CAGR of 7.6% from 2017. The market is driven by factors such as the establishment of stringent regulations by developed as well as emerging countries due to increasing food product recalls and cases of illness & hospitalizations caused by heavy metal contaminated food & water. The growth in the market is also attributed to the growth in the packaged food industry leading to increase in packaging induced heavy metals.

Factors such as lack of affordability of the high costs of testing methods and lack of harmonization in regulations & stakeholders across various regions are restraining market growth.

“Arsenic segment is projected to be fastest growing from 2017 to 2022”

The arsenic segment is projected to grow at the highest CAGR among all heavy metal types from 2017 to 2022. Increasing occurrences of arsenic in various food additives is fueling the market growth. The element exists in both inorganic and organic forms, where inorganic arsenic compounds such as arsenic trichloride are considered to be extremely toxic because of their higher levels of carcinogenesis.

“ICP-MS & OES technology segment led the market with the largest share in 2016”

ICP-MS & OES technology provides assurance of reliability, quality, and faster test results, which in turn drives its market. A plasma source is used in this technique for atomization of the sample for spectrometry. The sample, on reaching the plasma source, is quickly dried, vaporized, and energized using collisional excitation at a high temperature. The elements can be analyzed with detection limits at or below the part per trillion (ppt).

“Water sample testing dominated the market in 2016”

The global heavy metal testing market, by water, is categorized into drinking water, waste water, and industrial water. Globally, the demand for heavy metal-free water for industrial and drinking purposes has rapidly increased, thereby increasing the need for heavy metal testing of wastewater, industrial water, and drinking water. This is expected to increase the demand for heavy metal testing, globally.

“Japan contributed to the largest market share in the Asia Pacific region in 2016”

The European region dominated the heavy metal testing market in 2016. The market in North America is driven by the growth in the US market, as it is a large producer, importer, and exporter of different types of food products. The US has been implementing various regulations to certify and ensure the quality and safety of food from chemical threats.

The Asia Pacific market is projected to grow at the highest CAGR during the forecast period. The growth of heavy metal testing in the Asia Pacific region is driven by increasing export activities, which need to follow the stringency of rules & regulations enforced by different countries and regions. Food security standards are getting stringent year-on-year to ensure safer supply of food to individuals in local and foreign countries. Since countries such as China, India, and Australia are large exporters of food products to developed countries of North America & Europe, which are cautious about the quality of products imported from the Asia Pacific region, the governments of these exporting countries have enforced various regulations in place for consumers, producers, and regulators. Japanese companies are constantly innovating to match their national standards to international levels to gain a strong position for their food products in the global market. Japanese food testing laboratories have been constantly registering patents for developing technologies to detect heavy metals.

The figure below shows the breakdown of the primaries on the basis of the company, designation, and region, conducted during the research study.

By Company Type: Tier 1 – 38%, Tier 2 – 42%, and Tier 3 – 20%

By Designation: C level – 45%, and D level – 55%

By Region: Europe – 70%, Asia Pacific – 15%, North America – 10%, RoW – 5%

Major players such as SGS (Switzerland), Eurofins (Luxembourg), Intertek (UK), T?V S?D (Germany), ALS Limited (Australia), and Merieux NutriSciences (US) collectively accounted for a majority of the global heavy metal testing market. Other players in the market include LGC Group (UK), AsureQuality (New Zealand), Microbac Laboratories (US), EMSL Analytical (US), IFP Institut F?r Produktqualit?t (Germany), and OMIC USA (US).

Research Coverage:

The report focuses on heavy metal testing services for different materials and regions. It aims at estimating the size and future growth potential of this market across different segments—heavy metal type, technology, sample, and region. Furthermore, the report includes an in-depth competitive analysis of the key players in the market along with their company profiles, competitive landscape, recent developments, and key market strategies.

Reasons to buy this report:

To get a comprehensive overview of the global heavy metal testing market

To gain wide-ranging information about the top players in this industry, their service portfolios, and key strategies adopted by them

To gain insights of the major countries/regions in which the heavy metal testing market is flourishing

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