

Laboratory Proficiency Testing Market by Industry (Clinical Diagnostics, Microbiology, Pharmaceutical, Food & Animal Feed, Water, Opioid), Technology (PCR, Cell Culture), and Region; Unmet Needs, Stakeholder & Buying Criteria - Global Forecast to 2028

<https://marketpublishers.com/r/L39DFC1B072EN.html>

Date: October 2023

Pages: 388

Price: US\$ 4,950.00 (Single User License)

ID: L39DFC1B072EN

Abstracts

The global laboratory proficiency testing market is projected to reach USD 1.6 billion by 2028 from USD 1.2 billion in 2023, at a CAGR of 7.4%. Due to the mandatory nature of proficiency testing procedures for laboratories operating in various industries subject to regulation by organizations like CLIA, APLAC, and CLSI. The market for proficiency testing is expected to witness significant growth during the forecast period. With the increasing demand for independent proof of competence from regulatory bodies and customers, proficiency testing (PT) has become relevant for all laboratories testing product quality and safety. PT has become an integral component of the laboratory accreditation process, and the adoption of PT programs has increased significantly over the years. Also, the market's growth is strengthened by stringent safety and quality regulations governing food and pharmaceutical products, as well as a growing emphasis on water testing. However, the need for substantial capital investment to ensure precise and sensitive testing is anticipated to act as a hindrance to market expansion throughout the forecast period.

“Clinical Diagnostics held the largest share in 2022.”

Based on industry, the laboratory proficiency testing market is segmented into clinical diagnostics, food & animal feed, water, biologics, pharmaceuticals, microbiology, environmental, commercial beverages, cannabis/opioids, cosmetics, dietary

supplements, and nutraceuticals. In 2022, the clinical diagnostics segment accounted for the largest share of the laboratory proficiency testing market. The large share of this segment is attributed to the increasing incidence of target diseases, advancements in clinical diagnostic techniques, rising demand for early and accurate disease diagnosis, growing public-private investments as well as research grants and funding to develop innovative laboratory testing procedures, and rising government initiatives to improve the quality and affordability of clinical diagnostic testing procedures.

“The cell culture segment held the largest share in 2022.”

Based on technology, the global laboratory proficiency testing market has been segmented into PCR, spectrophotometry, immunoassays, chromatography, cell culture, and other technologies. As the biopharmaceutical industry continues to expand rapidly, the demand for proficiency testing in cell culture techniques to ensure product safety and efficacy has surged. Additionally, regulatory bodies, such as the U.S. Food and Drug Administration (FDA) and the European Medicines Agency (EMA), closely monitor these processes, mandating rigorous proficiency testing to maintain high standards and ensure patient safety. Owing to these factors, the cell culture segment accounted for the largest share of the laboratory proficiency testing market in 2022.

“North America to dominate the Laboratory proficiency testing market in 2023.”

In the US, it is mandatory for clinical laboratories to enroll in PT programs for maintaining CLIA certification and performing testing in certain industries. A combination of factors, including stringent regulations governing the launch of new products, growing focus on water and environmental testing, and the increasing value of US exports, have driven the need to ensure efficient laboratory and manufacturer performance, thereby supporting market growth. In addition, the US is one of the most promising markets for cannabis testing owing to the legalization of medical cannabis. This is expected to boost the need and demand for proficiency testing to ensure consumer safety.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the laboratory proficiency testing market.

By Company Type: Tier 1: 40%, Tier 2: 30%, and Tier 3: 30%

By Designation: C-level Executives: 27%, Directors: 18%, and Others: 55%

By Region: North America: 30%, Europe: 35%, APAC: 15%, Latin America: 10% and Middle East & Africa: 5%

The prominent players in the laboratory proficiency testing market are LGC Limited (UK), College of American Pathologists (US), Bio-Rad Laboratories (US), Merck KGaA (Germany), American Proficiency Institute (US), Randox Laboratories (UK), Fapas (Fera Science Ltd.) (UK), Waters Corporation (US), QACS (Greece), Weqas (UK), AOAC INTERNATIONAL (US), Bipea (France), SPEX CertiPrep (US), Absolute Standards Inc. (US), Trilogy Analytical Laboratory (US), Advanced Analytical Solutions (US), American Industrial Hygiene Association (US), Matrix Sciences (US), Aashvi Proficiency Testing & Analytical Services (India), Global Proficiency (New Zealand), The Emerald Test (US), FLUXANA GmbH & Co. KG (Germany), Phenova Inc. (US), FARE Labs (India), Go Plus Services SDN BHD (Malaysia), and Muva Kempten GmbH (Germany).

Research Coverage:

This report describes and studies the global laboratory proficiency testing market based on industry, technology, and regional levels. It provides detailed information regarding the major factors influencing the growth of this market. The report includes an in-depth competitive analysis and the product matrix of the prominent players in this market, along with their company profiles, product portfolios, recent developments, and MNM overview.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants in this market and provide information regarding the closest approximations of the revenue numbers for the overall laboratory proficiency testing market and its subsegments. This report will help stakeholders understand the competitive landscape to gain more insights to better position their businesses and to plan suitable go-to-market strategies. The report will also help the stakeholders understand the pulse of the market and provide information on key market drivers, restraints, opportunities, and challenges.

This report provides insights on:

Analysis of key drivers (growing need for proficiency testing for operational

excellence, stringent safety and quality regulations for food and pharmaceutical products, increasing focus on water testing), restraints (requirement of high capital investments for accurate and sensitive testing, complexity in testing technique), opportunities (technological advancements in testing industry, increasing adoption of proficiency tests to prevent food adulteration, growth opportunities in emerging countries), and challenges (need for proficiency testing scheme harmonization, logistical and data interpretation challenges, dearth of skilled professionals) influencing the growth of laboratory proficiency testing market.

Market Penetration: Comprehensive information on the product portfolios of the top players in the laboratory proficiency testing market. The report analyzes this market by industry, technology, and region.

Market Development: Comprehensive information on the lucrative emerging markets by industry, technology, and region

Market Diversification: Exhaustive information about the product portfolios, growing geographies, recent developments, and investments in the laboratory proficiency testing market

Competitive Assessment: In-depth assessment of market shares, growth strategies, product offerings, and capabilities of the leading players in the laboratory proficiency testing market

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*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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