

Unleashing the Power of Precision: Exploring the Global Analytical Standards Market; New Report by AMI

Global Analytical Standards Market Crossed the Mark of US\$ 1.48 Bn in 2022, Anticipated to Reach CAGR of 7.2% from 2023-2031

HOUSTON, TEXAS, UNITED STATES, August 3, 2023 /EINPresswire.com/ -- Global Analytical Standards Market Synopsis

Analytical standards are substances of known purity and concentration that are used in analytical chemistry for calibration and quality control. The market for analytical standards is growing due to the increasing demand for accurate and reliable analytical data in a wide range of industries, such as food and beverage, pharmaceutical, environmental, and forensics. Some recent developments in the analytical standards market include the introduction of new certified reference materials (CRMs) and the development of new analytical techniques that require high-purity standards. The market is also expected to be driven by the growing demand for customized analytical standards.



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Global Analytical Standards Market Growth Drivers:

- **Growing Demand for Quality Control in Pharmaceuticals:** The pharmaceutical industry's need for analytical standards is driven by the increasing focus on quality control and regulatory compliance. According to a report by the World Health Organization (WHO), the global pharmaceutical market was valued at over \$1.2 trillion in 2020, highlighting the scale of the industry's demand for analytical standards to ensure the safety and efficacy of drugs.
- **Increasing Focus on Environmental Monitoring:** The demand for environmental analytical standards is supported by the global emphasis on environmental protection and monitoring. According to the United Nations Environment Programme (UNEP), countries have enacted over

3,300 environmental laws and regulations worldwide, driving the need for analytical standards to comply with these regulations.

- **Advancements in Technology and Research:** The adoption of advanced analytical technologies drives the demand for corresponding analytical standards. As research and development activities expand, the demand for accurate and reliable reference materials increases.

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Global Analytical Standards Market Recent Developments:

- CRMs are substances of known purity and concentration that are used to calibrate analytical instruments and ensure the accuracy of analytical data. In recent years, there has been a growing demand for CRMs for a wide range of analytes, including food contaminants, environmental pollutants, and pharmaceutical compounds. Furthermore, the development of new analytical techniques, such as liquid chromatography-mass spectrometry (LC-MS) and gas chromatography-mass spectrometry (GC-MS), has created a need for high-purity standards. These techniques are used to analyze complex mixtures of compounds, and they require standards that are free from impurities. Moreover, there is also a growing demand for customized analytical standards, in addition to off-the-shelf standards. These standards are designed to meet the specific needs of different industries, such as the pharmaceutical, food and beverage, and environmental industries.
- The Asia Pacific region is witnessing significant growth in the pharmaceutical industry. According to a report, the pharmaceutical market in Asia Pacific reached over \$340 billion in 2021, accounting for approximately 24% of the global pharmaceutical market. The increasing demand for quality control and compliance with stringent regulations in the pharmaceutical sector drives the adoption of analytical standards.

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Global Analytical Standards Market: Competitive Landscape and Key Developments

In January 2023, Cayman broadened its range of Analytical Standards Panels, offering six affordable options that together cover 639 traditional and emerging drugs of abuse. This extensive collection aims to reach a broader range of laboratories, aiding in promptly identifying emerging drug patterns, resolving forensic and clinical toxicology cases, and enhancing drug surveillance efforts, where these crucial standards are needed the most.

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In May 2022, Restek introduced novel cannabinoid acid single standards, providing enhanced calibration flexibility for precise potency analysis in hemp and cannabis. These new standards offer improved options for targeted measurements, allowing more accurate assessments of cannabinoid acid content in these plant materials.

- o AccuStandard Inc.
- o Agilent Technologies
- o Cayman Chemical Company
- o Chiron AS
- o GFS Chemicals Inc.
- o LGC Standards
- o Mallinckrodt
- o Merck KGaA
- o PerkinElmer Inc.
- o Restek Corporation
- o RICCA Chemical Company
- o SPEX CertiPrep
- o Thermo Fisher Scientific Inc.
- o US Pharmacopeial Convention
- o Waters Corporation
- o Other Industry Participants

Global Analytical Standards Market

- o Chromatography
 - o Ion Chromatography
 - o Gas Chromatography
 - o Liquid Chromatography
 - o Thin Layer Chromatography
 - o Others
- o Spectroscopy
 - o Atomic Absorption Spectroscopy
 - o Mass Spectroscopy
 - o IR Spectroscopy
 - o Nuclear Magnetic Resonance Spectrometry
 - o X-Ray Fluorescence/Diffraction Spectrometry
 - o UV/Vis Spectroscopy
 - o Others
- o Physical Properties Testing
 - o Viscosity Testing
 - o Sieve Calibration & Particle Size Testing
 - o Colour Reference Testing
 - o Others

- o Titrimetry

By Product

- o Food & Beverage Analytical Standards
- o Allergen Standards
- o Dyes and Metabolites Standards
- o GMO Standards
- o Mycotoxins Standards
- o Nutritional Composition Compound Standards
- o Flavor & Fragrance Standards
- o Carbohydrate Standards
- o Peptide/Amino Acid Standards
- o Forensic Analytical Standards
- o Veterinary Drug Analytical Standards
- o Petrochemistry Analytical Standards
- o Diesel, Gasoline, Matrix Oils, and Petroleum Standards
- o Biofuel Standards
- o Environmental Analytical Standards
- o Pesticide Standards
- o Volatile Standards
- o Solid Waste Standards
- o Flame Retardant Standards
- o Others
- o Pharmaceutical & Life Sciences Analytical Standards
- o Impurity Reference Standards
- o Phytochemicals/ Phytopharmaceutical Standards
- o Cosmetic Standards
- o API Standards
- o Pharmaceutical Toxicology Standards
- o Pharmacopeial Standards
- o Others

By Methodology

- o Raw Material Testing
- o Bioanalytical Testing
- o Stability Testing
- o Dissolution Testing
- o Other Methodologies

By Category

- o Organic Analytical Standards
- o Inorganic Analytical Standards

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