

RNA Extraction and RNA Purification Market By Type of Product (Kits / Reagents and Instruments), Application Area(s) (Molecular Diagnostics, Drug Discovery & Development, Agriculture and Animal Research, and Other Application Area(s)), End Users (Hospitals and Clinics, Pharmaceutical and Biotechnology Companies, Academics and Research Institutes, Others), and Key Geographical Regions (North America, Europe, Asia-Pacific, MENA, Latin America and Rest of the World): Industry Trends and Global Forecasts, 2022-2035

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Abstracts

The RNA extraction and RNA purification kit market is currently estimated to be valued at \$29.5 billion in 2022. Over the past few decades, the field of molecular biology has witnessed significant advancements. Within this domain, molecular diagnostic testing has emerged as a vital tool for disease diagnosis and monitoring. Notably, the outbreak of COVID-19 in 2020 led to a substantial increase in demand for molecular diagnostics. This surge prompted researchers to focus on the development of more efficient molecular diagnostic methods, such as RNA extraction kits and RNA purification kits. RNA extraction, RNA isolation, and the analysis of high-quality RNA are considered essential processes in molecular diagnosis and in research and development efforts for therapeutics. However, manual methods for RNA extraction and purification are associated with various challenges, including the need for a substantial amount of starting material, limited throughput, the potential for manual errors and contamination, and compromised RNA quality. Moreover, manual methods involve extensive

manipulation, require costly reagents, entail long processing times, and necessitate skilled professionals. Consequently, RNA extraction and RNA purification kits have emerged as innovative solutions to address the issues linked to conventional manual methods. These kits offer improved reliability, efficiency, higher yields, and compatibility with a wide range of input samples, including blood, cells, tissues, plasma, saliva, and microbes. Furthermore, these kits reduce the need for manual intervention, leading to lower contamination risks and time and effort savings during RNA extraction and purification.

The onset of the COVID-19 pandemic resulted in a significant increase in the demand for RNA extraction kits for the detection of SARS-CoV-2. Currently, there are more than 700 RNA extraction kits and RNA purification kits, along with over 180 RNA extraction and purification instruments available in the market. These RNA extraction kits and instruments provide high-quality and sufficient RNA. Moreover, these instruments can be applied in an automated manner, allowing for the testing of multiple samples in a single run and producing reproducible results with minimal human errors. Despite their advantages, automated methods have some limitations. Extensive research is ongoing to identify and develop ways to enhance RNA extraction and RNA purification kits and instruments. In fact, more than 2,300 patents related to RNA extraction and RNA purification have been filed or granted in recent years. With the increasing adoption of molecular diagnostics and the introduction of novel and advanced RNA extraction and purification techniques, the RNA isolation and purification market is expected to experience consistent growth during the forecast period.

Key Market Segments

Type of Product

Kits / Reagents

Instruments

Application Areas

Molecular Diagnostics

Drug Discovery and Development

Other Application Areas

End Users

Hospitals and Clinics

Pharmaceutical and Biotechnology Companies

Academics and Research Institutes

Others

Geographical Regions

North America

Europe

Asia-Pacific

MENA

Latin America

Rest of the World

Research Coverage:

The report studies the RNA extraction and RNA purification market by type of product, application area(s), end users, and key geographical regions

The report analyzes factors (such as drivers, restraints, opportunities, and challenges) affecting the market growth.

The report assesses the potential advantages and obstacles within the market for those involved and offers information on the competitive environment for top

players in the market.

The report forecasts the revenue of market segments with respect to major regions.

A comprehensive assessment of the RNA extraction kit and RNA purification kit market landscape, considering various parameters like the number of reactions, kit types, RNA types isolated, technology used, key features, sample types analyzed, and application areas, along with details on the manufacturers.

A thorough analysis of the competitiveness of RNA extraction and purification instruments, focusing on parameters such as product applicability and product strengths.

Tabulated profiles of key players offering RNA extraction and purification kits in North America, Europe, and Asia-Pacific, featuring company overviews, financial performance, product portfolios, recent developments, and future outlook.

An extensive review of approximately 160 scientific articles related to RNA extraction and purification kits published between 2020 and 2022, with insights on publication years, focus areas, prominent journals, and geographic locations of publishers.

In-depth analysis of patents filed or granted for RNA extraction and purification kits, covering patent types, publication years, issuing authorities, organizations involved, focus areas, patent characteristics, and geography.

Brand positioning analysis of key industry players, considering aspects like manufacturer experience, product range, diversity, application variety, and patent publications.

Analysis of limitations in commercially available RNA extraction kits and instruments, including a Harvey ball analysis and potential solutions to address customer needs and overcome limitations in product offerings.

Key Benefits of Buying this Report

The report offers market leaders and newcomers valuable insights into revenue

estimations for both the overall market and its sub-segments.

Stakeholders can utilize the report to enhance their understanding of the competitive landscape, allowing for improved business positioning and more effective go-to-market strategies.

The report provides stakeholders with a pulse on the container closure integrity testing market, furnishing them with essential information on significant market drivers, barriers, opportunities, and challenges.

You will get access to complimentary PPT insights and excel data packs / dynamic dashboards to easily navigate through complex analyses / charts.

Key Market Companies

AccuBioMed

Beckman Coulter Diagnostics

HiMedia

Hangzhou Bigfish Bio-tech

PerkinElmer

Promega

Roche

Thermo Fisher Scientific

Trivitron

Qiagen

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