

# **Drug Reconstitution Market Distribution by Type of Container (Cartridge, Infusion Bag and Prefilled Syringe), Fabrication Material (Glass and Plastic), Physical State of Drug in Syringe and Cartridge (Liquid / Powder, Liquid / Liquid), Physical State of Drug in Infusion Bag (Liquid Mixture, Frozen Mixture), Volume of Container (5 mL for prefilled syringe and cartridge; 1,000 mL for infusion bag), Key Geographical Regions (North America, Europe, Asia-Pacific, Latin America, Middle East and North Africa, and Rest of the World): Industry Trends and Global Forecasts, 2021-2035**

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## **Abstracts**

The projected value of drug reconstitution market is expected to be valued at USD 3,960 million in 2021 and is anticipated to grow at a CAGR of 8% during the forecast period 2021-2035.

In recent years, the pharmaceutical landscape has witnessed a proliferation of biologics and small molecule drugs making their way into the market. Despite the promising therapeutic potential of these products, a significant challenge arises in maintaining their stability in liquid formulations, often resulting in diminished efficacy. To address this concern, lyophilization has emerged as the preferred method for developing stable, dry biopharmaceutical formulations. Remarkably, approximately 30% of FDA-approved parenteral drugs have embraced this technique, underscoring its pivotal role in

pharmaceutical development.

Since 2014, the Food and Drug Administration (FDA) has granted approval to more than 20 applications for lyophilized new drugs, contributing to a considerable market opportunity estimated at a noteworthy USD 3 billion. This surge in the adoption of lyophilized drugs has concurrently fueled a demand for innovative reconstitution systems, essential for ensuring the proper mixing and administration of these pharmaceutical formulations.

Traditional methods involving manual diluent extraction and transfer using syringes and needles have been associated with inherent risks such as medication errors and needle-stick injuries. Furthermore, the complexity of these conventional systems has confined the administration of lyophilized drugs primarily to healthcare facilities. Recognizing the need for more user-friendly and safer alternatives, the pharmaceutical industry is actively engaged in developing advanced reconstitution devices.

These cutting-edge systems empower patients and caregivers to administer drugs without the need for healthcare provider intervention. By offering premeasured doses, they contribute significantly to reducing dosing errors and the incidence of needle-stick injuries. Moreover, the improved portability and efficiency of these advanced systems have streamlined the delivery of lyophilized drugs, allowing for dilution and reconstitution at the point of delivery. Such advancements not only enhance patient convenience but also expand the scope of drug administration beyond healthcare facilities.

The pharmaceutical industry's enthusiasm for these advanced reconstitution systems is reflected in the substantial number of patent applications, surpassing 1,800, related to reconstitution systems and technologies. This noteworthy figure underscores the considerable efforts invested in driving market growth within the drug reconstitution sector over the forecast period. As pharmaceutical companies explore these innovative systems for lifecycle management, the overarching goal is to elevate the standard of healthcare provision by leveraging the manifold benefits offered by these progressive reconstitution technologies.

## Research Coverage

A brief introduction to novel drug reconstitution systems covers considerations, factors affecting drug reconstitution, lyophilization processes, and the significance of dual chamber systems.

An overview of the market landscape, detailing device types, chamber variations, physical states of drugs, container materials, and usability. It includes analyses based on establishment year, company size, region, and leading manufacturers.

The market landscape of other reconstitution devices, encompassing one-step systems and conventional devices, presenting details on primary containers, drug states, usability, and manufacturers.

Detailed profiles key players developing novel drug reconstitution systems, emphasizing company overviews, financial details, product portfolios, recent developments, and future outlooks.

Extensively reviews packaging trends for over 350 FDA-approved products, considering parameters like drug type, container, closure, dosage form, and route of administration, along with information on developers.

Analyzing patents filed/granted for novel drug reconstitution systems since 2011, highlighting trends, geographical locations, organizational types, and leading players.

A competitiveness analysis of system manufacturers based on supplier strength and product specifications.

Recent events related to novel drug reconstitution systems, considering event types, platforms, regional distribution, and key organizers.

Detailed analysis on trends, drivers, and challenges using a SWOT framework, including a Harvey ball analysis.

## Key Market Companies

Baxter

ICU Medical

B. Braun

Vetter Pharma

Nipro

SCHOTT-KAISHA

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