

Pharmaceutical Dissolution Testing Services Market Size, Share & Trends Analysis Report By Method (In Vitro, In Vivo), By Dosage Form (Capsules, Tablets), By Dissolution Apparatus (Basket, Paddle), By Region, And Segment Forecasts, 2023 - 2030

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Abstracts

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Pharmaceutical Dissolution Testing Services Market Growth & Trends

The global pharmaceutical dissolution testing services market size is expected to reach USD 1.2 billion by 2030, registering a CAGR of 8.0% from 2023 to 2030, according to a new report by Grand View Research, Inc. The market is expected to increase primarily as a result of the rising drug development process, increasing technological advancements, rising awareness about the need for high-quality products, and the production of numerous medications for various chronic diseases that require dissolution testing. The COVID-19 pandemic has significantly impacted the global industry. Pharmaceutical firms, biotech firms, and other end-user demands were primarily served during the crisis by developing coronavirus prevention drugs.

Since the end of 2019, these organizations have been actively working toward the development of medications that can be used as a treatment for COVID-19 patients who have only minor symptoms. And these drug developments require dissolution testing at each stage to access safety, stability, and efficacy, thus contributing to industry growth. For the physical assessment of solid dosage forms, such as tablets, capsules, ointments, and creams, dissolution testing is required. The simplest type of testing measures the solubility or rate of dissolving a medication tablet. Dissolution testing can be performed to assess the release rates of a drug material under various

situations and to provide details regarding the effectiveness of in vivo performance in Absorption, Distribution, Metabolism, And Excretion (ADME) and bioavailability studies.

Dissolution testing provides information on how quickly or slowly certain drugs are absorbed into various body parts and, subsequently, how much they dissolve after administration. This enables businesses to assess whether a drug will function effectively after it enters a patient's system and whether any negative effects brought on by slower absorption rates would occur. Pharmaceutical dissolution testing requires specialized staff to run the assays and prepare regulatory filings. This factor has greatly increased the demand for professional teams to handle pharmaceutical dissolution testing, which is predicted to have a favorable effect on the industry.

Pharmaceutical Dissolution Testing Services Market Report Highlights

The in vitro method segment accounted for the largest revenue share in 2022

The tablets dosage form segment accounted for the largest share and is anticipated to grow at the fastest CAGR during the forecast period

Tablets have high physical and chemical stability and the amount of drug delivered to the body can be controlled

Based on dissolution apparatus, the paddle segment dominated the industry in 2022 as it can cover a range of oral dosage forms

North America dominated the industry in 2022 owing to rising investments by public firms in research and their state-of-the-art research infrastructure

Contents

Table of Content

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market Segmentation and Scope
 - 1.1.1 Segment Scope
 - 1.1.2 Regional Scope
 - 1.1.3 Estimates And Forecast Timeline
- 1.2 Research Methodology
- 1.3 Information Procurement
 - 1.3.1 Purchased Database:
 - 1.3.2 GVR's Internal Database
 - 1.3.3 Secondary Sources
 - 1.3.4 Primary Research
 - 1.3.5 Details Of Primary Research
- 1.4 Information or Data Analysis
 - 1.4.1 Data Analysis Models
- 1.5 Market Formulation & Validation
- 1.6 Model Details
 - 1.6.1 Commodity Flow Analysis
 - 1.6.1.1 Approach: Commodity Flow Approach
- 1.7 Research Assumptions
- 1.8 List of Secondary Sources
- 1.9 List of Abbreviations
- 1.10 Objectives
 - 1.10.1 Objective
 - 1.10.2 Objective
 - 1.10.3 Objective
 - 1.10.4 Objective

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Outlook
- 2.2 Segment Outlook
- 2.3 Competitive Insights

CHAPTER 3 PHARMACEUTICAL DISSOLUTION TESTING SERVICES MARKET

VARIABLES, TRENDS, AND SCOPE

3.1 Market Lineage Outlook

3.1.1 Parent Market Outlook

3.1.2 Ancillary Market Outlook

3.2 Penetration and Growth Prospect Mapping

3.3 Market Dynamics

3.3.1 Market Drivers Analysis

3.3.1.1 Increasing R&D activities

3.3.1.2 Rising burden of chronic and infectious diseases supporting demand for dissolution testing of drugs

3.3.1.3 Rising use of generic drugs

3.3.2 Market Restraint Analysis

3.3.2.1 Increased effort for method validation

3.4 Pharmaceutical Dissolution Testing Services: Market Analysis Tools

3.4.1 Industry Analysis: Porter's Five Forces

3.4.2 PESTEL Analysis

3.4.3 Major Deals And Strategic Alliances

3.4.4 COVID- 19 Impact Analysis

CHAPTER 4 PHARMACEUTICAL DISSOLUTION TESTING SERVICES MARKET: SEGMENT ANALYSIS, BY METHOD, 2018 - 2030 (USD MILLION)

4.1 Definition and Scope

4.2 Method Market Share Analyses, 2022 & 2030

4.2.1 In-vitro

4.2.1.1 In-vitro market, 2018 - 2030 (USD Million)

4.2.2 In-vivo

4.2.2.1 In-vivo market, 2018 - 2030 (USD Million)

CHAPTER 5 PHARMACEUTICAL DISSOLUTION TESTING SERVICES MARKET: SEGMENT ANALYSIS, BY DOSAGE FORM, 2018 - 2030 (USD MILLION)

5.1 Definition and Scope

5.2 Dosage Form Market Share Analysis, 2022 & 2030

5.2.1 Capsules

5.2.1.1 Capsules market, 2018 - 2030 (USD Million)

5.2.2 Tablets

5.2.2.1 Tablets market, 2018 - 2030 (USD Million)

5.2.3 Others

5.2.3.1 Others market, 2018 - 2030 (USD Million)

CHAPTER 6 PHARMACEUTICAL DISSOLUTION TESTING SERVICES MARKET: SEGMENT ANALYSIS, BY DISSOLUTION APPARATUS, 2018 - 2030 (USD MILLION)

6.1 Definition and Scope

6.2 Dosage Form Market Share Analysis, 2022 & 2030

6.2.1 Basket

6.2.1.1 Basket market, 2018 - 2030 (USD Million)

6.2.2 Paddle

6.2.2.1 Paddle market, 2018 - 2030 (USD Million)

6.2.3 Others

6.2.3.1 Others market, 2018 - 2030 (USD Million)

CHAPTER 7 PHARMACEUTICAL DISSOLUTION TESTING SERVICES MARKET: SEGMENT ANALYSIS, BY REGION, 2018 - 2030 (USD MILLION)

7.1 Definition & Scope

7.2 Regional Market Share Analysis, 2022 & 2030

7.2.1 North America

7.2.1.1 North America market estimates and forecast, 2018 - 2030 (USD Million)

7.2.1.2 U.S.

7.2.1.2.1 U.S. pharmaceutical dissolution testing services market, 2018 - 2030 (USD Million)

7.2.1.3 Canada

7.2.1.3.1 Canada pharmaceutical dissolution testing services market, 2018 - 2030 (USD Million)

7.2.2 Europe

7.2.2.1 Europe pharmaceutical dissolution testing services market, 2018 - 2030 (USD Million)

7.2.2.2 U.K.

7.2.2.2.1 U.K. pharmaceutical dissolution testing services market, 2018 - 2030 (USD Million)

7.2.2.3 Germany

7.2.2.3.1 Germany pharmaceutical dissolution testing services market, 2018 - 2030 (USD Million)

7.2.2.4 Spain

7.2.2.4.1 Spain pharmaceutical dissolution testing services market, 2018 - 2030
(USD Million)

7.2.2.5 France

7.2.2.5.1 France pharmaceutical dissolution testing services market, 2018 - 2030
(USD Million)

7.2.2.6 Italy

7.2.2.6.1 Italy pharmaceutical dissolution testing services market, 2018 - 2030 (USD
Million)

7.2.3 Asia Pacific

7.2.3.1 Asia Pacific pharmaceutical dissolution testing services market, 2018 - 2030
(USD Million)

7.2.3.2 Japan

7.2.3.2.1 Japan pharmaceutical dissolution testing services market, 2018 - 2030
(USD Million)

7.2.3.3 China

7.2.3.3.1 China pharmaceutical dissolution testing services market, 2018 - 2030
(USD Million)

7.2.3.4 India

7.2.3.4.1 India pharmaceutical dissolution testing services market, 2018 - 2030
(USD Million)

7.2.3.5 South Korea

7.2.3.5.1 South Korea pharmaceutical dissolution testing services market, 2018 -
2030 (USD Million)

7.2.3.7 Australia

7.2.3.7.1 Australia pharmaceutical dissolution testing services market, 2018 - 2030
(USD Million)

7.2.4 Latin America

7.2.4.1 Latin America pharmaceutical dissolution testing services market, 2018 -
2030 (USD Million)

7.2.4.2 Brazil

7.2.4.2.1 Brazil pharmaceutical dissolution testing services market, 2018 - 2030
(USD Million)

7.2.4.3 Mexico

7.2.4.3.1 Mexico pharmaceutical dissolution testing services market, 2018 - 2030
(USD Million)

7.2.4.4 Argentina

7.2.4.4.1 Argentina pharmaceutical dissolution testing services market, 2018 - 2030
(USD Million)

7.2.5 MEA

7.2.5.1 MEA pharmaceutical dissolution testing services market, 2018 - 2030 (USD Million)

7.2.5.2 South Africa

7.2.5.2.1 South Africa pharmaceutical dissolution testing services market, 2018 - 2030 (USD Million)

7.2.5.3 Saudi Arabia

7.2.5.3.1 Saudi Arabia pharmaceutical dissolution testing services market, 2018 - 2030 (USD Million)

7.2.5.4 UAE

7.2.5.4.1 UAE pharmaceutical dissolution testing services market, 2018 - 2030 (USD Million)

CHAPTER 8 PHARMACEUTICAL DISSOLUTION TESTING SERVICES MARKET: COMPETITIVE ANALYSIS

8.1 Company Profiles

8.1.1 Intertek Group Plc

8.1.1.1 Company overview

8.1.1.2 Financial performance

8.1.1.3 Product benchmarking

8.1.1.4 Strategic initiatives

8.1.2 Avivia BV

8.1.2.1 Company overview

8.1.2.2 Financial performance

8.1.2.3 Product benchmarking

8.1.2.4 Strategic initiatives

8.1.3 Almac Group

8.1.3.1 Company overview

8.1.3.2 Financial performance

8.1.3.3 Product benchmarking

8.1.3.4 Strategic initiatives

8.1.4 Agilent Technologies, Inc.

8.1.4.1 Company overview

8.1.4.2 Financial performance

8.1.4.3 Product benchmarking

8.1.4.4 Strategic initiatives

8.1.5 Catalent, Inc.

8.1.5.1 Company overview

8.1.5.2 Financial performance

- 8.1.5.3 Product benchmarking
- 8.1.5.4 Strategic initiatives
- 8.1.6 Thermofisher Scientific Inc.
 - 8.1.6.1 Company overview
 - 8.1.6.2 Financial performance
 - 8.1.6.3 Product benchmarking
 - 8.1.6.4 Strategic initiatives
- 8.1.7 Charles River Laboratories
 - 8.1.7.1 Company overview
 - 8.1.7.2 Financial performance
 - 8.1.7.3 Product benchmarking
 - 8.1.7.4 Strategic initiatives
- 8.1.8 Cambrex
 - 8.1.8.1 Company overview
 - 8.1.8.2 Financial performance
 - 8.1.8.3 Product benchmarking
 - 8.1.8.4 Strategic initiatives
- 8.1.9 Boston Analytical
 - 8.1.9.1 Company overview
 - 8.1.9.2 Financial performance
 - 8.1.9.3 Product benchmarking
 - 8.1.9.4 Strategic initiatives
- 8.1.10 SOTAX
 - 8.1.10.1 Company overview
 - 8.1.10.2 Financial performance
 - 8.1.10.3 Product benchmarking
 - 8.1.10.4 Strategic initiatives
- 8.1.11 SGS SA
 - 8.1.11.1 Company overview
 - 8.1.11.2 Financial performance
 - 8.1.11.3 Product benchmarking
 - 8.1.11.4 Strategic initiatives
- 8.1.12 AMRI
 - 8.1.12.1 Company overview
 - 8.1.12.2 Financial performance
 - 8.1.12.3 Product benchmarking
 - 8.1.12.4 Strategic initiatives
- 8.1.13 Pace Analytical Life Sciences
 - 8.1.13.1 Company overview

8.1.13.2 Financial performance

8.1.13.3 Product benchmarking

8.1.13.4 Strategic initiative

List Of Tables

LIST OF TABLES

Table 1 List of secondary sources

Table 2 List of Abbreviations

List Of Figures

LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 2 Information procurement
- Fig. 3 Primary research pattern
- Fig. 4 Market summary, 2022
- Fig. 5 Market trends & outlook
- Fig. 6 Market segmentation & scope
- Fig. 7 Market driver relevance analysis (Current & future impact)
- Fig. 8 Market restraint relevance analysis (Current & future impact)
- Fig. 9 Penetration & growth prospect mapping
- Fig. 10 SWOT Analysis, By Factor (political & legal, economic and technological)
- Fig. 11 Porter's Five Forces Analysis
- Fig. 12 Pharmaceutical Dissolution Testing Services market: Key takeaways, by method (USD Million)
- Fig. 13 In vitro market revenue estimates and forecast 2018 - 2030 (USD Million)
- Fig. 14 In vivo market revenue estimates and forecast 2018 - 2030 (USD Million)
- Fig. 15 Pharmaceutical Dissolution Testing Services market: Dosage form movement analysis, 2021 & 2030 (USD Million)
- Fig. 16 Capsule market revenue estimates and forecast 2018 - 2030 (USD Million)
- Fig. 17 Tablets market revenue estimates and forecast 2018 - 2030 (USD Million)
- Fig. 18 Others market revenue estimates and forecast 2018 - 2030 (USD Million)
- Fig. 19 Regional marketplace: Key takeaways (USD Million)
- Fig. 20 Regional outlook, 2022 & 2030 (USD Million)
- Fig. 21 North America Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)
- Fig. 22 U.S. Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)
- Fig. 23 Canada Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)
- Fig. 24 Europe Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)
- Fig. 25 U.K. Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)
- Fig. 26 Germany Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)
- Fig. 27 France Pharmaceutical Dissolution Testing Services market revenue estimates

and forecasts 2018 - 2030 (USD Million)

Fig. 28 Italy Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 29 Spain Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 30 Asia Pacific Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 31 China Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 32 Japan Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 33 India Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 34 South Korea Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 35 Australia Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 36 Latin America Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 37 Brazil Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 38 Mexico Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 39 Argentina Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 40 MEA Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 41 South Africa Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 42 Saudi Arabia Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

Fig. 43 UAE Pharmaceutical Dissolution Testing Services market revenue estimates and forecasts 2018 - 2030 (USD Million)

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