

Non-Injectable Insulin Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Pills, Sprays, and Others), By Distribution Channel (Hospital Pharmacies, and Online Pharmacies, Drug Stores), By Region and Competition, 2020-2030F

<https://marketpublishers.com/r/NBFF714CF576EN.html>

Date: May 2025

Pages: 186

Price: US\$ 4,500.00 (Single User License)

ID: NBFF714CF576EN

Abstracts

Market Overview

The Global Non-Injectable Insulin Market was valued at USD 3.14 Billion in 2024 and is projected to reach USD 5.45 Billion by 2030, growing at a CAGR of 9.63% during the forecast period. This market encompasses insulin formulations designed to be administered without needles, offering alternatives to traditional injection-based delivery. Non-injectable insulin options—such as oral pills, inhalable forms, sprays, and patches—are being developed to improve patient adherence and quality of life, especially for individuals who face challenges with injections. These delivery systems aim to offer a more user-friendly experience while maintaining effective blood glucose control. Despite the promise, the market faces hurdles due to clinical setbacks; for instance, Oramed Pharmaceuticals' oral insulin candidate ORMD-0801 failed to meet its primary endpoint, and Biocon halted a Phase 1 trial of Tregopil for Type 1 diabetes. However, with continued innovation and patient-centric product development, non-injectable insulin therapies are expected to gain traction as a viable alternative for diabetes management.

Key Market Drivers

Improved Glycemic Control

Enhanced glycemic control is a pivotal driver of growth in the Global Non-Injectable Insulin Market. Traditional injectable insulin can be uncomfortable, often leading to poor compliance. Non-injectable delivery systems address this by offering less invasive options, improving patient adherence and reducing anxiety associated with needle use. These alternatives also support earlier initiation of insulin therapy, allowing better management of blood glucose levels and delaying the progression of diabetes-related complications. By accommodating patients with physical limitations or needle aversion, these technologies increase treatment accessibility and improve health outcomes. The availability of user-friendly insulin forms also encourages adoption among previously reluctant patient populations, thereby expanding the market base and accelerating growth.

Key Market Challenges

Efficacy and Safety Concerns

Concerns over the effectiveness and safety of non-injectable insulin continue to hinder broader market adoption. While these alternatives promise improved convenience, they must demonstrate clinical efficacy equivalent to traditional injections to gain widespread acceptance. Issues such as variable absorption rates and inconsistent glucose control can create doubts among healthcare professionals. Furthermore, the potential for unknown long-term side effects associated with newer delivery technologies adds to skepticism. Regulatory bodies require robust evidence to approve such therapies, and without it, product launches may be delayed or restricted. This uncertainty affects physician confidence and limits patient uptake, ultimately restraining market expansion.

Key Market Trends

Personalized Treatment Approaches

The growing trend toward personalized medicine is significantly shaping the Global Non-Injectable Insulin Market. Tailoring treatment strategies to individual patient needs—considering factors like lifestyle, age, comorbidities, and psychological preferences—enhances therapy adherence and outcomes. Non-injectable insulin options provide flexibility that supports this personalization. For instance, oral formulations may better suit elderly patients with dexterity issues, while sprays may appeal to younger demographics seeking ease and discretion. Customized treatment protocols that

incorporate these delivery systems can minimize patient discomfort and improve disease management. This trend aligns with the broader healthcare movement toward patient-centered care and is expected to contribute significantly to the market's long-term growth.

Key Market Players

Midatech Pharma Plc

Shreya Life Sciences Pvt. Ltd.

Boston Therapeutics, Inc.

Coromed, Inc.

Diabetology Ltd.

Emisphere Technologies, Inc.

Oramed Pharmaceuticals, Inc.

Diasome Pharmaceuticals, Inc.

Generex Biotechnology Corp.

Biodel, Inc.

Report Scope:

In this report, the Global Non-Injectable Insulin Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Non-Injectable Insulin Market, By Product:

Pills

Sprays

Others

Non-Injectable Insulin Market, By Distribution Channel:

Hospital Pharmacies

Online Pharmacies

Drug Stores

Non-Injectable Insulin Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Non-Injectable Insulin Market.

Available Customizations:

Global Non-Injectable Insulin Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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