

Smart Labels Market for Healthcare and Pharmaceutical Industry by Type of Technology (RFID, NFC and Other Technologies), Type of Packaging (Primary Packaging and Secondary Packaging), Type of Primary Packaging (Vials, Syringes, Cartridges, Ampoules, Bottles and Blister Packs), Type of Secondary Packaging (Boxes, Cartons and Pouches) and Key Geographical Regions (North America, Europe, Asia Pacific, MENA and Latin America) - Industry Trends and Global Forecasts, 2022-2035

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Abstracts

The smart label market is expected to reach USD 3.7 million in 2023 anticipated to grow at a CAGR of 16% during the forecast period 2022-2035.

Counterfeit pharmaceuticals make up a market valued at approximately \$200 billion annually, posing serious risks with 20% having incorrect dosages and 30% lacking active ingredients. The World Health Organization's report highlights these dangers to patient safety and legitimate pharmaceutical companies' credibility. To combat this, labeling services are shifting toward smart labeling tech, an integral part of intelligent packaging. Smart labels, or tags, offer benefits like easy supply chain tracking and anti-counterfeiting measures. They're expected to save companies \$0.8 - 1.5 million yearly through better inventory management. However, hurdles like high integration costs and the lack of consistent global regulations might slow down the adoption of smart labels. Efforts from groups such as GS1 standards and RAIN Alliance aim to establish

universal regulations, paving the way for wider acceptance of this technology.

Report Coverage

The report studies the smart label market based on type of technology, type of packaging, type of primary packaging, type of secondary packaging and key geographical regions

It analyzes various factors such as drivers, restraints, opportunities, and challenges influencing market growth.

Assessment of potential advantages and obstacles in the market, providing insights into the competitive landscape among leading market players.

Forecasting revenue for market segments across five major regions.

Smart labels significantly impact the healthcare sector by offering advanced capabilities in tracking and monitoring pharmaceuticals and healthcare products. They ensure product authenticity, streamline supply chains, enable patient-centric solutions, aid in clinical trial management, and support asset tracking.

Smart labels encompass diverse technologies like RFID, Bluetooth, sensing, and IoT labels, utilized in supply chain management, asset tracking, patient-centric solutions, product authentication, clinical trials, blood bag management, and related functions.

Challenges in adopting smart labels in healthcare and pharmaceuticals include regulatory compliance, cost implications, interoperability concerns, and data security. Industry growth is driven by factors such as prioritization of patient safety, technological advancements, efficient supply chain management, and enhanced pharmaceutical authentication.

Companies involved in smart label development for healthcare and pharmaceuticals differ in supplier strength, service offerings based on application areas and RFID frequency bands, and portfolio diversity in technology types.

Detailed profiles of notable companies specializing in smart labels for healthcare and pharmaceuticals, selected based on application diversity and company size,

will include company overview, establishment year, employee count, headquarters location, key executives, smart label portfolios, recent developments, and future outlook.

An exhaustive analysis of patents related to smart labels in healthcare and pharmaceuticals, considering patent type, publication year, geographic distribution, legal status, industry type, applicant profiles, and evaluation of patent value based on qualitative and quantitative aspects.

Comprehensive scrutiny of partnerships and collaborations within the market, analyzing the nature, timing, key players involved, and regional focus during the specified period.

A comprehensive strategic plan, utilizing thirteen strategic tools, to guide emerging players in exploring untapped market opportunities within the smart labels sector for healthcare and pharmaceutical applications.

A detailed discussion on associated trends, key drivers, challenges, and their relative impact on the smart labels market for healthcare and pharmaceuticals, assessed under a SWOT framework. A Harvey ball analysis illustrates the relative effect of each SWOT parameter on the overall market.

Key Market Companies

CCL Industries

Schreiner

Datalogic

Tadbik

SATO Asia Pacific

Invengo

Intellhydro Technology

RFiD Discovery

ID Tech Solutions

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