

Food Traceability: Technologies and Global Markets

Market Research Report | 2025-03-03 | 150 pages | BCC Research

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Report description:

Description

Report Scope

The report analyzes the global markets for food traceability, using 2023 as a benchmark year and offering projections for the forecast period from 2024 to 2029, with estimates of compound annual growth rates (CAGRs). The market size is estimated from the perspective of technology and applications. This report covers many aspects of the food traceability market, including technological advances, economic factors and business considerations. It outlines the market forces impacting the industry and its many technologies and applications, and examines the leading companies engaged in food traceability technology, equipment, software and applications. It examines the factors driving market growth and the regional dynamics influencing the market.

Report Includes

- 44 data tables and 49 additional tables
- Analyses of global market trends for food traceability technologies, with market revenue data for 2023, estimates for 2024, forecasts for 2025 and projected CAGRs through 2029
- Estimates of the market size and revenue growth prospects, along with a market share analysis by technology type, component, equipment type, type of software solution, and region/country
- Insights derived from the Porter's Five Forces model, as well as global supply chain and PESTLE analyses
- Analysis of the industry structure, including companies' market shares and rankings, strategic alliances, M&A activity and a venture funding outlook
- Overview of sustainability trends and ESG developments, with emphasis on consumer attitudes, and the ESG scores and practices of leading companies
- Evaluation of recent patent activity and key granted and published patents
- Profiles of leading companies, including Bar Code Integrators Inc., Honeywell International Inc., IBM Corp., TE-Food International GmbH and Optel Vision Inc.

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Executive Summary

Summary:

The global market for food traceability is expected to grow from \$23.8 billion in 2024 and is projected to reach \$38.5 billion by the end of 2029, at a compound annual growth rate (CAGR) of 10.1% during the forecast period of 2024 to 2029.

The global food traceability market is a rapidly evolving sector driven by the increasing need for transparency, safety and accountability in the food supply chain. With the globalization of food production and distribution, ensuring the authenticity and quality of food products has become paramount. The market is supported by stringent regulatory frameworks, such as the U.S. Food Safety Modernization Act (FSMA) and similar laws in the EU, which mandate robust traceability systems to prevent contamination and ensure compliance. Moreover, rising consumer demand for ethically sourced, organic and non-genetically modified organism (GMO) food products has compelled businesses to invest in advanced traceability technologies to meet these expectations and build trust.

Technological advances, including blockchain, Internet of Things (IoT), radio frequency identification (RFID) and AI, are transforming the industry by enabling real-time monitoring and improved data sharing across complex supply chains. These innovations improve operational efficiency, reduce food waste and ensure that products meet quality and safety standards. The developed markets of North America and Europe lead in adopting advanced traceability solutions, while emerging economies in Asia-Pacific and Latin America are experiencing rapid growth due to rising food safety concerns and regulatory reforms.

Leading companies focus on integrating traceability systems with sustainability initiatives, addressing environmental concerns, and promoting resource efficiency. Challenges such as implementation costs and fragmented supply chains in certain regions persist, but the long-term benefits of improved safety, compliance and consumer loyalty outweigh these hurdles. The global food traceability market has become a vital component of the modern food ecosystem.

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BIO-RAD LABORATORIES INC.
C.H. ROBINSON WORLDWIDE INC.
COGNEX CORP.
COVECTRA INC.
FOOD FORENSICS
HONEYWELL INTERNATIONAL INC.
IBM CORP.
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