

Food Traceability: Technologies and Global Markets

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

AVAILABLE LICENSES:

- Single User License \$4650.00
- 2-5 Users License \$5580.00
- Site License \$6696.00
- Enterprise License \$8035.00

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.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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.

Table of Contents:

Table of Contents

Chapter 1 Executive Summary

Market Outlook

Scope of Report

Market Summary

Chapter 2 Market Overview

Overview

Understanding Food Traceability

PESTEL Analysis

Porter's Five Forces Analysis

Bargaining Power of Buyers: High

Bargaining Power of Suppliers: Moderate

Potential for New Entrants: High

Threat of Substitutes: Low

Competition in the Industry: High

Chapter 3 Market Dynamics

Market Dynamics

Market Drivers

Regulatory Imperatives Driving Compliance

Consumer Demand for Transparency and Accountability

Technological Advances Transforming the Sector
Food Safety and Recall Management
Sustainability
Market Challenges
Implementation Costs
Fragmented Supply Chains
Regulatory Complexity
Resistance to Change
Data Accuracy and Security
Market Opportunities
Expansion of Premium and Export-Oriented Food Products
Direct-to-Consumer Channels
Integration with Precision Agriculture
Localized Food Systems
Traceability-as-a-Service Models

Chapter 4 Regulatory Landscape
Overview
Chapter 5 Emerging Technologies
Overview
Blockchain Technology
IoT Sensors
AI and ML Algorithms
Cloud-Based Traceability Platforms
DNA-Based Traceability Systems
Near Field Communication Technology
Satellite Imaging and Remote Sensing Technology
Autonomous Robotics and Drone Technology

Chapter 6 Market Segments
Segmentation Breakdown
Market Analysis, by Technology
Barcode Technology
RFID/RTLS Technology
Infrared Technology
Blockchain Technology
Other Technologies
Market Analysis by Component
Equipment
Software
Ancillary Services
Market Analysis by Equipment Type
2D and 1D scanners
RFID Tags and Readers
PDAs with GPS
Sensors
Other Equipment Types
Market Analysis by Software
Supply Chain Management

Traceability Platform
Inventory Management
Other Software
Market Analysis by Application
Meat and Poultry
Fresh Produce and Seeds
Seafood
Dairy Products
Beverages
Other Applications
Geographical Breakdown
Market Analysis by Region
North America
Europe
Asia-Pacific
Middle East and Africa
South America
Chapter 7 Competitive Landscape
Overview
Strategic Analysis
Chapter 8 Sustainability in Food Traceability Market: An ESG Perspective
Introduction to ESG
ESG Factors in the Global Food Traceability Market
Industry ESG Performance Analysis
Concluding Remarks from BCC
Chapter 9 Appendix
Methodology
Sources
Abbreviations
Company Profiles
ANTARES VISION S.P.A.
BAR CODE INTEGRATORS INC.
BEXT HOLDINGS INC.
BIO-RAD LABORATORIES INC.
C.H. ROBINSON WORLDWIDE INC.
COGNEX CORP.
COVECTRA INC.
FOOD FORENSICS
HONEYWELL INTERNATIONAL INC.
IBM CORP.
MERIT-TRAX TECHNOLOGIES
OPTEL VISION INC.
SOURCETRACE
TE-FOOD INTERNATIONAL GMBH
TRACE ONE
ZEBRA TECHNOLOGIES CORP.

Food Traceability: Technologies and Global Markets

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

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4650.00
	2-5 Users License	\$5580.00
	Site License	\$6696.00
	Enterprise License	\$8035.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	Phone*
<input type="text"/>	<input type="text"/>
First Name*	Last Name*
<input type="text"/>	<input type="text"/>
Job title*	
<input type="text"/>	
Company Name*	EU Vat / Tax ID / NIP number*
<input type="text"/>	<input type="text"/>
Address*	City*
<input type="text"/>	<input type="text"/>
Zip Code*	Country*
<input type="text"/>	<input type="text"/>
	Date
	<input type="text" value="2026-02-07"/>

Signature

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com