

Global Food Freshness Indicator Label Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Food Freshness Indicator Label market size was valued at US\$ 186 million in 2025 and is forecast to a readjusted size of US\$ 288 million by 2032 with a CAGR of 6.3% during review period.

Food Freshness Indicator Label refers to an intelligent label that provides a visible, tactile, or digitally readable indication of remaining food freshness, spoilage status, or cumulative storage conditions. The market mainly includes time-temperature freshness labels, spoilage-gas indicators, pH-responsive labels, color-changing freshness indicators, and tactile shelf-life indicators. Static date labels, ordinary product labels, standalone data loggers, RFID traceability tags without freshness sensing, and active packaging materials used only to extend shelf life are excluded.

The 2025 benchmark ASP is US\$0.20 per unit, global sales volume is approximately 903.000 million units, and the estimated average gross margin is approximately 37%. The upstream industry chain includes indicator dyes, reactive chemicals, enzymes, polymers, films, paper substrates, adhesives, printing inks, and microfluidic materials. The midstream includes indicator formulation, shelf-life calibration, printing, coating, lamination, label converting, testing, and customized development. The downstream mainly covers meat, seafood, dairy products, fresh produce, prepared foods, and beverages.

Demand for food freshness indicator labels is supported by food-waste reduction, cold-chain quality management, improved inventory rotation, and growing demand for information beyond static expiry dates. Commercial indicators can respond to cumulative time and temperature exposure or directly detect spoilage-related changes,

providing a more dynamic indication of product condition.

Future development will focus on direct spoilage detection, product-specific shelf-life calibration, lower unit cost, high-speed label application, digital scanning, recyclable packaging compatibility, bio-based indicator materials, and clearer consumer-readable outputs.

Report Scope

This report is a detailed and comprehensive analysis for global Food Freshness Indicator Label market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Food Freshness Indicator Label market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Food Freshness Indicator Label market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Food Freshness Indicator Label market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Food Freshness Indicator Label market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Food Freshness Indicator Label

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Food Freshness Indicator Label market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Zebra Technologies Corporation, Insignia Technologies Ltd., Mimica Lab Ltd., Keep-it Technologies AS, Vitsab International AB, Timestrip UK Ltd., Evigence Sensors Ltd., Innoscentia AB, DeltaTrak, Inc., SpotSee, LLC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Food Freshness Indicator Label market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Time?Temperature Reaction

Volatile Gas Reaction

pH & Chemical Reaction

Biological & Enzymatic Reaction

Market segment by Installation Position

Package-Exterior Label

Package-Interior Indicator

Closure-Integrated Indicator

Market segment by Monitoring Period

Short Shelf-Life Indicator

Medium Shelf-Life Indicator

Long Shelf-Life Indicator

Market segment by Application

Meat & Poultry

Seafood

Dairy Products

Fresh Produce

Prepared Foods & Beverages

Others

Major players covered

Zebra Technologies Corporation

Insignia Technologies Ltd.

Mimica Lab Ltd.

Keep-it Technologies AS

Vitsab International AB

Timestrip UK Ltd.

Evigence Sensors Ltd.

Innoscentia AB

DeltaTrak, Inc.

SpotSee, LLC

3M Company

Nanografi Smart Tech

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Food Freshness Indicator Label product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Food Freshness Indicator Label, with price, sales quantity, revenue, and global market share of Food Freshness Indicator

Label from 2021 to 2026.

Chapter 3, the Food Freshness Indicator Label competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Food Freshness Indicator Label breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Food Freshness Indicator Label market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Food Freshness Indicator Label.

Chapter 14 and 15, to describe Food Freshness Indicator Label sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Food Freshness Indicator Label Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Time?Temperature Reaction

1.3.3 Volatile Gas Reaction

1.3.4 pH & Chemical Reaction

1.3.5 Biological & Enzymatic Reaction

1.4 Market Analysis by Installation Position

1.4.1 Overview: Global Food Freshness Indicator Label Consumption Value by Installation Position: 2021 Versus 2025 Versus 2032

1.4.2 Package-Exterior Label

1.4.3 Package-Interior Indicator

1.4.4 Closure-Integrated Indicator

1.5 Market Analysis by Monitoring Period

1.5.1 Overview: Global Food Freshness Indicator Label Consumption Value by Monitoring Period: 2021 Versus 2025 Versus 2032

1.5.2 Short Shelf-Life Indicator

1.5.3 Medium Shelf-Life Indicator

1.5.4 Long Shelf-Life Indicator

1.6 Market Analysis by Application

1.6.1 Overview: Global Food Freshness Indicator Label Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Meat & Poultry

1.6.3 Seafood

1.6.4 Dairy Products

1.6.5 Fresh Produce

1.6.6 Prepared Foods & Beverages

1.6.7 Others

1.7 Global Food Freshness Indicator Label Market Size & Forecast

1.7.1 Global Food Freshness Indicator Label Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Food Freshness Indicator Label Sales Quantity (2021-2032)

1.7.3 Global Food Freshness Indicator Label Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Zebra Technologies Corporation

2.1.1 Zebra Technologies Corporation Details

2.1.2 Zebra Technologies Corporation Major Business

2.1.3 Zebra Technologies Corporation Food Freshness Indicator Label Product and Services

2.1.4 Zebra Technologies Corporation Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Zebra Technologies Corporation Recent Developments/Updates

2.2 Insignia Technologies Ltd.

2.2.1 Insignia Technologies Ltd. Details

2.2.2 Insignia Technologies Ltd. Major Business

2.2.3 Insignia Technologies Ltd. Food Freshness Indicator Label Product and Services

2.2.4 Insignia Technologies Ltd. Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Insignia Technologies Ltd. Recent Developments/Updates

2.3 Mimica Lab Ltd.

2.3.1 Mimica Lab Ltd. Details

2.3.2 Mimica Lab Ltd. Major Business

2.3.3 Mimica Lab Ltd. Food Freshness Indicator Label Product and Services

2.3.4 Mimica Lab Ltd. Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Mimica Lab Ltd. Recent Developments/Updates

2.4 Keep-it Technologies AS

2.4.1 Keep-it Technologies AS Details

2.4.2 Keep-it Technologies AS Major Business

2.4.3 Keep-it Technologies AS Food Freshness Indicator Label Product and Services

2.4.4 Keep-it Technologies AS Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Keep-it Technologies AS Recent Developments/Updates

2.5 Vitsab International AB

2.5.1 Vitsab International AB Details

2.5.2 Vitsab International AB Major Business

2.5.3 Vitsab International AB Food Freshness Indicator Label Product and Services

2.5.4 Vitsab International AB Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Vitsab International AB Recent Developments/Updates

2.6 Timestrip UK Ltd.

2.6.1 Timestrip UK Ltd. Details

2.6.2 Timestrip UK Ltd. Major Business

2.6.3 Timestrip UK Ltd. Food Freshness Indicator Label Product and Services

2.6.4 Timestrip UK Ltd. Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Timestrip UK Ltd. Recent Developments/Updates

2.7 Evigence Sensors Ltd.

2.7.1 Evigence Sensors Ltd. Details

2.7.2 Evigence Sensors Ltd. Major Business

2.7.3 Evigence Sensors Ltd. Food Freshness Indicator Label Product and Services

2.7.4 Evigence Sensors Ltd. Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Evigence Sensors Ltd. Recent Developments/Updates

2.8 Innoscentia AB

2.8.1 Innoscentia AB Details

2.8.2 Innoscentia AB Major Business

2.8.3 Innoscentia AB Food Freshness Indicator Label Product and Services

2.8.4 Innoscentia AB Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Innoscentia AB Recent Developments/Updates

2.9 DeltaTrak, Inc.

2.9.1 DeltaTrak, Inc. Details

2.9.2 DeltaTrak, Inc. Major Business

2.9.3 DeltaTrak, Inc. Food Freshness Indicator Label Product and Services

2.9.4 DeltaTrak, Inc. Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 DeltaTrak, Inc. Recent Developments/Updates

2.10 SpotSee, LLC

2.10.1 SpotSee, LLC Details

2.10.2 SpotSee, LLC Major Business

2.10.3 SpotSee, LLC Food Freshness Indicator Label Product and Services

2.10.4 SpotSee, LLC Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 SpotSee, LLC Recent Developments/Updates

2.11 3M Company

2.11.1 3M Company Details

2.11.2 3M Company Major Business

2.11.3 3M Company Food Freshness Indicator Label Product and Services

2.11.4 3M Company Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 3M Company Recent Developments/Updates

2.12 Nanografi Smart Tech

2.12.1 Nanografi Smart Tech Details

2.12.2 Nanografi Smart Tech Major Business

2.12.3 Nanografi Smart Tech Food Freshness Indicator Label Product and Services

2.12.4 Nanografi Smart Tech Food Freshness Indicator Label Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Nanografi Smart Tech Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: FOOD FRESHNESS INDICATOR LABEL BY MANUFACTURER

3.1 Global Food Freshness Indicator Label Sales Quantity by Manufacturer (2021-2026)

3.2 Global Food Freshness Indicator Label Revenue by Manufacturer (2021-2026)

3.3 Global Food Freshness Indicator Label Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Food Freshness Indicator Label by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Food Freshness Indicator Label Manufacturer Market Share in 2025

3.4.3 Top 6 Food Freshness Indicator Label Manufacturer Market Share in 2025

3.5 Food Freshness Indicator Label Market: Overall Company Footprint Analysis

3.5.1 Food Freshness Indicator Label Market: Region Footprint

3.5.2 Food Freshness Indicator Label Market: Company Product Type Footprint

3.5.3 Food Freshness Indicator Label Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Food Freshness Indicator Label Market Size by Region

4.1.1 Global Food Freshness Indicator Label Sales Quantity by Region (2021-2032)

4.1.2 Global Food Freshness Indicator Label Consumption Value by Region (2021-2032)

4.1.3 Global Food Freshness Indicator Label Average Price by Region (2021-2032)

4.2 North America Food Freshness Indicator Label Consumption Value (2021-2032)

4.3 Europe Food Freshness Indicator Label Consumption Value (2021-2032)

4.4 Asia-Pacific Food Freshness Indicator Label Consumption Value (2021-2032)

4.5 South America Food Freshness Indicator Label Consumption Value (2021-2032)

4.6 Middle East & Africa Food Freshness Indicator Label Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Food Freshness Indicator Label Sales Quantity by Type (2021-2032)

5.2 Global Food Freshness Indicator Label Consumption Value by Type (2021-2032)

5.3 Global Food Freshness Indicator Label Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Food Freshness Indicator Label Sales Quantity by Application (2021-2032)

6.2 Global Food Freshness Indicator Label Consumption Value by Application (2021-2032)

6.3 Global Food Freshness Indicator Label Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Food Freshness Indicator Label Sales Quantity by Type (2021-2032)

7.2 North America Food Freshness Indicator Label Sales Quantity by Application (2021-2032)

7.3 North America Food Freshness Indicator Label Market Size by Country

7.3.1 North America Food Freshness Indicator Label Sales Quantity by Country (2021-2032)

7.3.2 North America Food Freshness Indicator Label Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Food Freshness Indicator Label Sales Quantity by Type (2021-2032)

8.2 Europe Food Freshness Indicator Label Sales Quantity by Application (2021-2032)

8.3 Europe Food Freshness Indicator Label Market Size by Country

8.3.1 Europe Food Freshness Indicator Label Sales Quantity by Country (2021-2032)

8.3.2 Europe Food Freshness Indicator Label Consumption Value by Country (2021-2032)

- 8.3.3 Germany Market Size and Forecast (2021-2032)
- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Food Freshness Indicator Label Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Food Freshness Indicator Label Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Food Freshness Indicator Label Market Size by Region
 - 9.3.1 Asia-Pacific Food Freshness Indicator Label Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Food Freshness Indicator Label Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Food Freshness Indicator Label Sales Quantity by Type (2021-2032)
- 10.2 South America Food Freshness Indicator Label Sales Quantity by Application (2021-2032)
- 10.3 South America Food Freshness Indicator Label Market Size by Country
 - 10.3.1 South America Food Freshness Indicator Label Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Food Freshness Indicator Label Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Food Freshness Indicator Label Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Food Freshness Indicator Label Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Food Freshness Indicator Label Market Size by Country
 - 11.3.1 Middle East & Africa Food Freshness Indicator Label Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Food Freshness Indicator Label Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Food Freshness Indicator Label Market Drivers
- 12.2 Food Freshness Indicator Label Market Restraints
- 12.3 Food Freshness Indicator Label Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Food Freshness Indicator Label and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Food Freshness Indicator Label
- 13.3 Food Freshness Indicator Label Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Food Freshness Indicator Label Typical Distributors

14.3 Food Freshness Indicator Label Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Food Freshness Indicator Label Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Food Freshness Indicator Label Consumption Value by Installation Position, (USD Million), 2021 & 2025 & 2032

Table 3. Global Food Freshness Indicator Label Consumption Value by Monitoring Period, (USD Million), 2021 & 2025 & 2032

Table 4. Global Food Freshness Indicator Label Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Zebra Technologies Corporation Basic Information, Manufacturing Base and Competitors

Table 6. Zebra Technologies Corporation Major Business

Table 7. Zebra Technologies Corporation Food Freshness Indicator Label Product and Services

Table 8. Zebra Technologies Corporation Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Zebra Technologies Corporation Recent Developments/Updates

Table 10. Insignia Technologies Ltd. Basic Information, Manufacturing Base and Competitors

Table 11. Insignia Technologies Ltd. Major Business

Table 12. Insignia Technologies Ltd. Food Freshness Indicator Label Product and Services

Table 13. Insignia Technologies Ltd. Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Insignia Technologies Ltd. Recent Developments/Updates

Table 15. Mimica Lab Ltd. Basic Information, Manufacturing Base and Competitors

Table 16. Mimica Lab Ltd. Major Business

Table 17. Mimica Lab Ltd. Food Freshness Indicator Label Product and Services

Table 18. Mimica Lab Ltd. Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Mimica Lab Ltd. Recent Developments/Updates

Table 20. Keep-it Technologies AS Basic Information, Manufacturing Base and Competitors

Table 21. Keep-it Technologies AS Major Business

Table 22. Keep-it Technologies AS Food Freshness Indicator Label Product and Services

Table 23. Keep-it Technologies AS Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Keep-it Technologies AS Recent Developments/Updates

Table 25. Vitsab International AB Basic Information, Manufacturing Base and Competitors

Table 26. Vitsab International AB Major Business

Table 27. Vitsab International AB Food Freshness Indicator Label Product and Services

Table 28. Vitsab International AB Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Vitsab International AB Recent Developments/Updates

Table 30. Timestrip UK Ltd. Basic Information, Manufacturing Base and Competitors

Table 31. Timestrip UK Ltd. Major Business

Table 32. Timestrip UK Ltd. Food Freshness Indicator Label Product and Services

Table 33. Timestrip UK Ltd. Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Timestrip UK Ltd. Recent Developments/Updates

Table 35. Evigence Sensors Ltd. Basic Information, Manufacturing Base and Competitors

Table 36. Evigence Sensors Ltd. Major Business

Table 37. Evigence Sensors Ltd. Food Freshness Indicator Label Product and Services

Table 38. Evigence Sensors Ltd. Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Evigence Sensors Ltd. Recent Developments/Updates

Table 40. Innoscentia AB Basic Information, Manufacturing Base and Competitors

Table 41. Innoscentia AB Major Business

Table 42. Innoscentia AB Food Freshness Indicator Label Product and Services

Table 43. Innoscentia AB Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Innoscentia AB Recent Developments/Updates

Table 45. DeltaTrak, Inc. Basic Information, Manufacturing Base and Competitors

Table 46. DeltaTrak, Inc. Major Business

Table 47. DeltaTrak, Inc. Food Freshness Indicator Label Product and Services

Table 48. DeltaTrak, Inc. Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. DeltaTrak, Inc. Recent Developments/Updates

Table 50. SpotSee, LLC Basic Information, Manufacturing Base and Competitors

Table 51. SpotSee, LLC Major Business

Table 52. SpotSee, LLC Food Freshness Indicator Label Product and Services

Table 53. SpotSee, LLC Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. SpotSee, LLC Recent Developments/Updates

Table 55. 3M Company Basic Information, Manufacturing Base and Competitors

Table 56. 3M Company Major Business

Table 57. 3M Company Food Freshness Indicator Label Product and Services

Table 58. 3M Company Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. 3M Company Recent Developments/Updates

Table 60. Nanografi Smart Tech Basic Information, Manufacturing Base and Competitors

Table 61. Nanografi Smart Tech Major Business

Table 62. Nanografi Smart Tech Food Freshness Indicator Label Product and Services

Table 63. Nanografi Smart Tech Food Freshness Indicator Label Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Nanografi Smart Tech Recent Developments/Updates

Table 65. Global Food Freshness Indicator Label Sales Quantity by Manufacturer (2021-2026) & (Million Units)

Table 66. Global Food Freshness Indicator Label Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global Food Freshness Indicator Label Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 68. Market Position of Manufacturers in Food Freshness Indicator Label, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and Food Freshness Indicator Label Production Site of Key Manufacturer

Table 70. Food Freshness Indicator Label Market: Company Product Type Footprint

Table 71. Food Freshness Indicator Label Market: Company Product Application

Footprint

Table 72. Food Freshness Indicator Label New Market Entrants and Barriers to Market Entry

Table 73. Food Freshness Indicator Label Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global Food Freshness Indicator Label Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global Food Freshness Indicator Label Sales Quantity by Region (2021-2026) & (Million Units)

Table 76. Global Food Freshness Indicator Label Sales Quantity by Region (2027-2032) & (Million Units)

Table 77. Global Food Freshness Indicator Label Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global Food Freshness Indicator Label Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global Food Freshness Indicator Label Average Price by Region (2021-2026) & (US\$/Unit)

Table 80. Global Food Freshness Indicator Label Average Price by Region (2027-2032) & (US\$/Unit)

Table 81. Global Food Freshness Indicator Label Sales Quantity by Type (2021-2026) & (Million Units)

Table 82. Global Food Freshness Indicator Label Sales Quantity by Type (2027-2032) & (Million Units)

Table 83. Global Food Freshness Indicator Label Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global Food Freshness Indicator Label Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Food Freshness Indicator Label Average Price by Type (2021-2026) & (US\$/Unit)

Table 86. Global Food Freshness Indicator Label Average Price by Type (2027-2032) & (US\$/Unit)

Table 87. Global Food Freshness Indicator Label Sales Quantity by Application (2021-2026) & (Million Units)

Table 88. Global Food Freshness Indicator Label Sales Quantity by Application (2027-2032) & (Million Units)

Table 89. Global Food Freshness Indicator Label Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Food Freshness Indicator Label Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Food Freshness Indicator Label Average Price by Application (2021-2026) & (US\$/Unit)

Table 92. Global Food Freshness Indicator Label Average Price by Application (2027-2032) & (US\$/Unit)

Table 93. North America Food Freshness Indicator Label Sales Quantity by Type (2021-2026) & (Million Units)

Table 94. North America Food Freshness Indicator Label Sales Quantity by Type (2027-2032) & (Million Units)

Table 95. North America Food Freshness Indicator Label Sales Quantity by Application (2021-2026) & (Million Units)

Table 96. North America Food Freshness Indicator Label Sales Quantity by Application (2027-2032) & (Million Units)

Table 97. North America Food Freshness Indicator Label Sales Quantity by Country (2021-2026) & (Million Units)

Table 98. North America Food Freshness Indicator Label Sales Quantity by Country (2027-2032) & (Million Units)

Table 99. North America Food Freshness Indicator Label Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America Food Freshness Indicator Label Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe Food Freshness Indicator Label Sales Quantity by Type (2021-2026) & (Million Units)

Table 102. Europe Food Freshness Indicator Label Sales Quantity by Type (2027-2032) & (Million Units)

Table 103. Europe Food Freshness Indicator Label Sales Quantity by Application (2021-2026) & (Million Units)

Table 104. Europe Food Freshness Indicator Label Sales Quantity by Application (2027-2032) & (Million Units)

Table 105. Europe Food Freshness Indicator Label Sales Quantity by Country (2021-2026) & (Million Units)

Table 106. Europe Food Freshness Indicator Label Sales Quantity by Country (2027-2032) & (Million Units)

Table 107. Europe Food Freshness Indicator Label Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Food Freshness Indicator Label Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Food Freshness Indicator Label Sales Quantity by Type (2021-2026) & (Million Units)

Table 110. Asia-Pacific Food Freshness Indicator Label Sales Quantity by Type

(2027-2032) & (Million Units)

Table 111. Asia-Pacific Food Freshness Indicator Label Sales Quantity by Application (2021-2026) & (Million Units)

Table 112. Asia-Pacific Food Freshness Indicator Label Sales Quantity by Application (2027-2032) & (Million Units)

Table 113. Asia-Pacific Food Freshness Indicator Label Sales Quantity by Region (2021-2026) & (Million Units)

Table 114. Asia-Pacific Food Freshness Indicator Label Sales Quantity by Region (2027-2032) & (Million Units)

Table 115. Asia-Pacific Food Freshness Indicator Label Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Food Freshness Indicator Label Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Food Freshness Indicator Label Sales Quantity by Type (2021-2026) & (Million Units)

Table 118. South America Food Freshness Indicator Label Sales Quantity by Type (2027-2032) & (Million Units)

Table 119. South America Food Freshness Indicator Label Sales Quantity by Application (2021-2026) & (Million Units)

Table 120. South America Food Freshness Indicator Label Sales Quantity by Application (2027-2032) & (Million Units)

Table 121. South America Food Freshness Indicator Label Sales Quantity by Country (2021-2026) & (Million Units)

Table 122. South America Food Freshness Indicator Label Sales Quantity by Country (2027-2032) & (Million Units)

Table 123. South America Food Freshness Indicator Label Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America Food Freshness Indicator Label Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa Food Freshness Indicator Label Sales Quantity by Type (2021-2026) & (Million Units)

Table 126. Middle East & Africa Food Freshness Indicator Label Sales Quantity by Type (2027-2032) & (Million Units)

Table 127. Middle East & Africa Food Freshness Indicator Label Sales Quantity by Application (2021-2026) & (Million Units)

Table 128. Middle East & Africa Food Freshness Indicator Label Sales Quantity by Application (2027-2032) & (Million Units)

Table 129. Middle East & Africa Food Freshness Indicator Label Sales Quantity by Country (2021-2026) & (Million Units)

Table 130. Middle East & Africa Food Freshness Indicator Label Sales Quantity by Country (2027-2032) & (Million Units)

Table 131. Middle East & Africa Food Freshness Indicator Label Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa Food Freshness Indicator Label Consumption Value by Country (2027-2032) & (USD Million)

Table 133. Food Freshness Indicator Label Raw Material

Table 134. Key Manufacturers of Food Freshness Indicator Label Raw Materials

Table 135. Food Freshness Indicator Label Typical Distributors

Table 136. Food Freshness Indicator Label Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Food Freshness Indicator Label Picture
- Figure 2. Global Food Freshness Indicator Label Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Food Freshness Indicator Label Revenue Market Share by Type in 2025
- Figure 4. Time?Temperature Reaction Examples
- Figure 5. Volatile Gas Reaction Examples
- Figure 6. pH & Chemical Reaction Examples
- Figure 7. Biological & Enzymatic Reaction Examples
- Figure 8. Global Food Freshness Indicator Label Revenue by Installation Position, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Food Freshness Indicator Label Revenue Market Share by Installation Position in 2025
- Figure 10. Package-Exterior Label Examples
- Figure 11. Package-Interior Indicator Examples
- Figure 12. Closure-Integrated Indicator Examples
- Figure 13. Global Food Freshness Indicator Label Revenue by Monitoring Period, (USD Million), 2021 & 2025 & 2032
- Figure 14. Global Food Freshness Indicator Label Revenue Market Share by Monitoring Period in 2025
- Figure 15. Short Shelf-Life Indicator Examples
- Figure 16. Medium Shelf-Life Indicator Examples
- Figure 17. Long Shelf-Life Indicator Examples
- Figure 18. Global Food Freshness Indicator Label Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Food Freshness Indicator Label Revenue Market Share by Application in 2025
- Figure 20. Meat & Poultry Examples
- Figure 21. Seafood Examples
- Figure 22. Dairy Products Examples
- Figure 23. Fresh Produce Examples
- Figure 24. Prepared Foods & Beverages Examples
- Figure 25. Others Examples
- Figure 26. Global Food Freshness Indicator Label Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 27. Global Food Freshness Indicator Label Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 28. Global Food Freshness Indicator Label Sales Quantity (2021-2032) & (Million Units)

Figure 29. Global Food Freshness Indicator Label Price (2021-2032) & (US\$/Unit)

Figure 30. Global Food Freshness Indicator Label Sales Quantity Market Share by Manufacturer in 2025

Figure 31. Global Food Freshness Indicator Label Revenue Market Share by Manufacturer in 2025

Figure 32. Producer Shipments of Food Freshness Indicator Label by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 33. Top 3 Food Freshness Indicator Label Manufacturer (Revenue) Market Share in 2025

Figure 34. Top 6 Food Freshness Indicator Label Manufacturer (Revenue) Market Share in 2025

Figure 35. Global Food Freshness Indicator Label Sales Quantity Market Share by Region (2021-2032)

Figure 36. Global Food Freshness Indicator Label Consumption Value Market Share by Region (2021-2032)

Figure 37. North America Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 38. Europe Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 39. Asia-Pacific Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 40. South America Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 41. Middle East & Africa Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 42. Global Food Freshness Indicator Label Sales Quantity Market Share by Type (2021-2032)

Figure 43. Global Food Freshness Indicator Label Consumption Value Market Share by Type (2021-2032)

Figure 44. Global Food Freshness Indicator Label Average Price by Type (2021-2032) & (US\$/Unit)

Figure 45. Global Food Freshness Indicator Label Sales Quantity Market Share by Application (2021-2032)

Figure 46. Global Food Freshness Indicator Label Revenue Market Share by Application (2021-2032)

Figure 47. Global Food Freshness Indicator Label Average Price by Application (2021-2032) & (US\$/Unit)

Figure 48. North America Food Freshness Indicator Label Sales Quantity Market Share by Type (2021-2032)

Figure 49. North America Food Freshness Indicator Label Sales Quantity Market Share by Application (2021-2032)

Figure 50. North America Food Freshness Indicator Label Sales Quantity Market Share by Country (2021-2032)

Figure 51. North America Food Freshness Indicator Label Consumption Value Market Share by Country (2021-2032)

Figure 52. United States Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 53. Canada Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 54. Mexico Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 55. Europe Food Freshness Indicator Label Sales Quantity Market Share by Type (2021-2032)

Figure 56. Europe Food Freshness Indicator Label Sales Quantity Market Share by Application (2021-2032)

Figure 57. Europe Food Freshness Indicator Label Sales Quantity Market Share by Country (2021-2032)

Figure 58. Europe Food Freshness Indicator Label Consumption Value Market Share by Country (2021-2032)

Figure 59. Germany Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 60. France Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 61. United Kingdom Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 62. Russia Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 63. Italy Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 64. Asia-Pacific Food Freshness Indicator Label Sales Quantity Market Share by Type (2021-2032)

Figure 65. Asia-Pacific Food Freshness Indicator Label Sales Quantity Market Share by Application (2021-2032)

Figure 66. Asia-Pacific Food Freshness Indicator Label Sales Quantity Market Share by

Region (2021-2032)

Figure 67. Asia-Pacific Food Freshness Indicator Label Consumption Value Market Share by Region (2021-2032)

Figure 68. China Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 69. Japan Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 70. South Korea Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 71. India Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 72. Southeast Asia Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 73. Australia Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 74. South America Food Freshness Indicator Label Sales Quantity Market Share by Type (2021-2032)

Figure 75. South America Food Freshness Indicator Label Sales Quantity Market Share by Application (2021-2032)

Figure 76. South America Food Freshness Indicator Label Sales Quantity Market Share by Country (2021-2032)

Figure 77. South America Food Freshness Indicator Label Consumption Value Market Share by Country (2021-2032)

Figure 78. Brazil Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 79. Argentina Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 80. Middle East & Africa Food Freshness Indicator Label Sales Quantity Market Share by Type (2021-2032)

Figure 81. Middle East & Africa Food Freshness Indicator Label Sales Quantity Market Share by Application (2021-2032)

Figure 82. Middle East & Africa Food Freshness Indicator Label Sales Quantity Market Share by Country (2021-2032)

Figure 83. Middle East & Africa Food Freshness Indicator Label Consumption Value Market Share by Country (2021-2032)

Figure 84. Turkey Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 85. Egypt Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 86. Saudi Arabia Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 87. South Africa Food Freshness Indicator Label Consumption Value (2021-2032) & (USD Million)

Figure 88. Food Freshness Indicator Label Market Drivers

Figure 89. Food Freshness Indicator Label Market Restraints

Figure 90. Food Freshness Indicator Label Market Trends

Figure 91. Porters Five Forces Analysis

Figure 92. Manufacturing Cost Structure Analysis of Food Freshness Indicator Label in 2025

Figure 93. Manufacturing Process Analysis of Food Freshness Indicator Label

Figure 94. Food Freshness Indicator Label Industrial Chain

Figure 95. Sales Channel: Direct to End-User vs Distributors

Figure 96. Direct Channel Pros & Cons

Figure 97. Indirect Channel Pros & Cons

Figure 98. Methodology

Figure 99. Research Process and Data Source

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