

Global Melamine Detection Service in Dairy Products Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Melamine Detection Service in Dairy Products market size is predicted to grow from US\$ 514 million in 2025 to US\$ 742 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 2032.

Melamine Detection Service in Dairy Products is a specialized analytical testing service designed to identify and quantify melamine residues in milk, infant formula, cheese, yogurt, and other dairy-based products. Melamine is a nitrogen-rich industrial chemical that has been illegally added to dairy products to artificially inflate protein content readings, posing serious health risks including kidney stones, urinary tract damage, and potential renal failure upon long-term exposure.

The upstream segment includes suppliers of analytical instruments (HPLC-MS/MS, GC-MS, ELISA kits, Raman spectrometers), chemical reagents, sample preparation consumables, and laboratory equipment. The midstream segment encompasses sample collection, extraction, purification, analysis, data interpretation, and report generation performed by accredited third-party testing laboratories, government food safety agencies, and in-house quality control departments of dairy manufacturers. Melamine detection services are categorized by detection method into chromatographic techniques (HPLC-MS/MS, GC-MS with limits of detection as low as 0.01 mg/kg), immunoassay techniques (ELISA for rapid screening), and spectroscopic methods (Raman, NIR); by sample type into liquid milk, powdered infant formula, cheese, yogurt, butter, and other dairy products; by service type into laboratory testing (confirmatory) and in-situ rapid testing (screening). The downstream segment serves dairy product manufacturers (quality control and export compliance), government regulatory agencies (market surveillance and food safety enforcement), third-party certification bodies, and export/import inspection authorities.

The industry maintains gross margins between 40% and 60%, reflecting the specialized instrumentation requirements, regulatory accreditation costs, and value-added nature of food safety testing.

The global melamine detection service market for dairy products continues to maintain steady demand, driven by persistent food safety concerns, stringent regulatory standards for dairy imports and exports, and the ongoing need for quality assurance across the dairy supply chain. Following the 2008 melamine contamination crisis, global regulatory frameworks have established strict maximum residue limits for melamine in dairy products—typically 1 mg/kg for infant formula and 2.5 mg/kg for other dairy products—creating sustained demand for confirmatory testing services.

A notable trend reshaping the market is the rapid advancement of dual-mode detection technologies. Traditional single-mode detection methods face limitations in balancing sensitivity and convenience. Novel approaches combining ultraviolet-visible absorption spectroscopy with surface-enhanced Raman scattering (SERS) on a single platform have been developed, enabling both rapid screening and high-sensitivity confirmatory analysis within the same testing workflow. This dual-mode strategy leverages gold nanoparticle aggregation triggered by melamine—causing both colorimetric change and SERS signal enhancement—allowing detection limits as low as 0.1 $\mu\text{mol/L}$ (12.6 $\mu\text{g/mL}$), well below regulatory thresholds.

LPI (LP Information)'s newest research report, the "Melamine Detection Service in Dairy Products Industry Forecast" looks at past sales and reviews total world Melamine Detection Service in Dairy Products sales in 2025, providing a comprehensive analysis by region and market sector of projected Melamine Detection Service in Dairy Products sales for 2026 through 2032. With Melamine Detection Service in Dairy Products sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Melamine Detection Service in Dairy Products industry.

This Insight Report provides a comprehensive analysis of the global Melamine Detection Service in Dairy Products landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Melamine Detection Service in Dairy Products portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global

Melamine Detection Service in Dairy Products market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Melamine Detection Service in Dairy Products and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Melamine Detection Service in Dairy Products.

This report presents a comprehensive overview, market shares, and growth opportunities of Melamine Detection Service in Dairy Products market by product type, application, key players and key regions and countries.

Segmentation by Type:

Chromatographic Techniques (HPLC-MS/MS, GC-MS)

Immunoassay Techniques (ELISA, LFIA)

Spectroscopic Methods (Raman, NIR, UV-Vis)

Segmentation by Technology Generation:

Single-Mode Detection

Dual-Mode Detection (Optical + SERS)

Multi-Residue Screening

Segmentation by Detection Limit:

Low Sensitivity (>1 mg/kg)

Standard (0.1-1 mg/kg)

High Sensitivity (

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Melamine Detection Service in Dairy Products Market Size (2021-2032)
 - 2.1.2 Melamine Detection Service in Dairy Products Market Size CAGR by Region (2021 VS 2025 VS 2032)
 - 2.1.3 World Current & Future Analysis for Melamine Detection Service in Dairy Products by Country/Region (2021, 2025 & 2032)
- 2.2 Melamine Detection Service in Dairy Products Segment by Type
 - 2.2.1 Chromatographic Techniques (HPLC-MS/MS, GC-MS)
 - 2.2.2 Immunoassay Techniques (ELISA, LFIA)
 - 2.2.3 Spectroscopic Methods (Raman, NIR, UV-Vis)
 - 2.2.4 Melamine Detection Service in Dairy Products Market Size by Type
 - 2.2.4.1 Melamine Detection Service in Dairy Products Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.4.2 Global Melamine Detection Service in Dairy Products Market Size Market Share by Type (2021-2026)
- 2.3 Melamine Detection Service in Dairy Products Segment by Technology Generation
 - 2.3.1 Single-Mode Detection
 - 2.3.2 Dual-Mode Detection (Optical + SERS)
 - 2.3.3 Multi-Residue Screening
 - 2.3.4 Melamine Detection Service in Dairy Products Market Size by Technology Generation
 - 2.3.4.1 Melamine Detection Service in Dairy Products Market Size CAGR by Technology Generation (2021 VS 2025 VS 2032)
 - 2.3.4.2 Global Melamine Detection Service in Dairy Products Market Size Market

Share by Technology Generation (2021-2026)

2.4 Melamine Detection Service in Dairy Products Segment by Detection Limit

2.4.1 Low Sensitivity (>1 mg/kg)

2.4.2 Standard (0.1-1 mg/kg)

2.4.3 High Sensitivity (

List Of Tables

LIST OF TABLES

Table 1. Melamine Detection Service in Dairy Products Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Melamine Detection Service in Dairy Products Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Chromatographic Techniques (HPLC-MS/MS, GC-MS)

Table 4. Major Players of Immunoassay Techniques (ELISA, LFIA)

Table 5. Major Players of Spectroscopic Methods (Raman, NIR, UV-Vis)

Table 6. Melamine Detection Service in Dairy Products Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 7. Global Melamine Detection Service in Dairy Products Market Size by Type (2021-2026) & (\$ millions)

Table 8. Global Melamine Detection Service in Dairy Products Market Size Market Share by Type (2021-2026)

Table 9. Major Players of Single-Mode Detection

Table 10. Major Players of Dual-Mode Detection (Optical + SERS)

Table 11. Major Players of Multi-Residue Screening

Table 12. Melamine Detection Service in Dairy Products Market Size CAGR by Technology Generation (2021 VS 2025 VS 2032) & (\$ millions)

Table 13. Global Melamine Detection Service in Dairy Products Market Size by Technology Generation (2021-2026) & (\$ millions)

Table 14. Global Melamine Detection Service in Dairy Products Market Size Market Share by Technology Generation (2021-2026)

Table 15. Major Players of Low Sensitivity (>1 mg/kg)

Table 16. Major Players of Standard (0.1-1 mg/kg)

Table 17. Major Players of High Sensitivity (

List Of Figures

LIST OF FIGURES

Figure 1. Melamine Detection Service in Dairy Products Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Melamine Detection Service in Dairy Products Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Melamine Detection Service in Dairy Products Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Melamine Detection Service in Dairy Products Sales Market Share by Country/Region (2025)

Figure 8. Melamine Detection Service in Dairy Products Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Melamine Detection Service in Dairy Products Market Size Market Share by Type in 2025

Figure 10. Global Melamine Detection Service in Dairy Products Market Size Market Share by Technology Generation in 2025

Figure 11. Global Melamine Detection Service in Dairy Products Market Size Market Share by Detection Limit in 2025

Figure 12. Melamine Detection Service in Dairy Products in Dairy Manufacturers (In-house QC)

Figure 13. Global Melamine Detection Service in Dairy Products Market: Dairy Manufacturers (In-house QC) (2021-2026) & (\$ millions)

Figure 14. Melamine Detection Service in Dairy Products in Government Regulatory Agencies

Figure 15. Global Melamine Detection Service in Dairy Products Market: Government Regulatory Agencies (2021-2026) & (\$ millions)

Figure 16. Melamine Detection Service in Dairy Products in Third-Party Testing Laboratories

Figure 17. Global Melamine Detection Service in Dairy Products Market: Third-Party Testing Laboratories (2021-2026) & (\$ millions)

Figure 18. Melamine Detection Service in Dairy Products in Export/Import Inspection Authorities

Figure 19. Global Melamine Detection Service in Dairy Products Market: Export/Import Inspection Authorities (2021-2026) & (\$ millions)

Figure 20. Global Melamine Detection Service in Dairy Products Market Size Market

Share by Application in 2025

Figure 21. Global Melamine Detection Service in Dairy Products Revenue Market Share by Player in 2025

Figure 22. Global Melamine Detection Service in Dairy Products Market Size Market Share by Region (2021-2026)

Figure 23. Americas Melamine Detection Service in Dairy Products Market Size 2021-2026 (\$ millions)

Figure 24. APAC Melamine Detection Service in Dairy Products Market Size 2021-2026 (\$ millions)

Figure 25. Europe Melamine Detection Service in Dairy Products Market Size 2021-2026 (\$ millions)

Figure 26. Middle East & Africa Melamine Detection Service in Dairy Products Market Size 2021-2026 (\$ millions)

Figure 27. Americas Melamine Detection Service in Dairy Products Value Market Share by Country in 2025

Figure 28. United States Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 29. Canada Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 30. Mexico Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 31. Brazil Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 32. APAC Melamine Detection Service in Dairy Products Market Size Market Share by Region in 2025

Figure 33. APAC Melamine Detection Service in Dairy Products Market Size Market Share by Type (2021-2026)

Figure 34. APAC Melamine Detection Service in Dairy Products Market Size Market Share by Application (2021-2026)

Figure 35. China Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 36. Japan Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 37. South Korea Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 38. Southeast Asia Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 39. India Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 40. Australia Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 41. Europe Melamine Detection Service in Dairy Products Market Size Market Share by Country in 2025

Figure 42. Europe Melamine Detection Service in Dairy Products Market Size Market Share by Type (2021-2026)

Figure 43. Europe Melamine Detection Service in Dairy Products Market Size Market Share by Application (2021-2026)

Figure 44. Germany Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 45. France Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 46. UK Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 47. Italy Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 48. Russia Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 49. Middle East & Africa Melamine Detection Service in Dairy Products Market Size Market Share by Region (2021-2026)

Figure 50. Middle East & Africa Melamine Detection Service in Dairy Products Market Size Market Share by Type (2021-2026)

Figure 51. Middle East & Africa Melamine Detection Service in Dairy Products Market Size Market Share by Application (2021-2026)

Figure 52. Egypt Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 53. South Africa Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 54. Israel Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 55. Turkey Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 56. GCC Countries Melamine Detection Service in Dairy Products Market Size Growth 2021-2026 (\$ millions)

Figure 57. Americas Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 58. APAC Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 59. Europe Melamine Detection Service in Dairy Products Market Size

2027-2032 (\$ millions)

Figure 60. Middle East & Africa Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 61. United States Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 62. Canada Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 63. Mexico Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 64. Brazil Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 65. China Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 66. Japan Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 67. Korea Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 68. Southeast Asia Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 69. India Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 70. Australia Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 71. Germany Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 72. France Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 73. UK Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 74. Italy Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 75. Russia Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 76. Egypt Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 77. South Africa Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 78. Israel Melamine Detection Service in Dairy Products Market Size 2027-2032 (\$ millions)

Figure 79. Turkey Melamine Detection Service in Dairy Products Market Size
2027-2032 (\$ millions)

Figure 80. Global Melamine Detection Service in Dairy Products Market Size Market
Share Forecast by Type (2027-2032)

Figure 81. Global Melamine Detection Service in Dairy Products Market Size Market
Share Forecast by Application (2027-2032)

Figure 82. GCC Countries Melamine Detection Service in Dairy Products Market Size
2027-2032 (\$ millions)

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