

Global Double-quenched Probes 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 Double-quenched Probes market size was valued at US\$ 75.11 million in 2025 and is forecast to a readjusted size of US\$ 108 million by 2032 with a CAGR of 5.1% during review period.

Double-quenched Probes are advanced fluorescent oligonucleotide probes optimized for high-sensitivity nucleic acid detection in qPCR and related assays, distinguished by their dual-quencher configuration. These probes feature a single fluorescent reporter dye (e.g., FAM, VIC) at one end and two distinct quencher molecules (e.g., BHQ-1, MGB-linked quenchers) at or near the opposite end, creating a synergistic fluorescence suppression system via FRET. In the unbound state, the dual quenchers eliminate residual background fluorescence more effectively than single-quenched probes, while during qPCR amplification, the DNA polymerase's 5'-exonuclease activity cleaves the probe, releasing the reporter dye to generate a measurable signal proportional to target nucleic acid levels. This design delivers significantly higher signal-to-noise ratios, enhanced sensitivity for low-abundance targets, and reduced non-specific binding, making it ideal for clinical diagnostics (viral load quantification, cancer biomarker detection), single-cell analysis, and high-precision nucleic acid quantification applications.

In 2025, global Double-quenched Probes production reached approximately 235 K units, with an average global market price of around US\$ 310 per unit. The production capacity of Double-quenched Probes is approximately 290 K units per year, the average gross profit margin was 30-35%.

The upstream of the Double-quenched Probes supply chain consists of providers of

specialized raw materials including nucleotide monomers, dual quencher molecules (internal + 3' end, e.g., ZEN/BHQ, TAO/BHQ), fluorescent dyes, and modification chemistries (LNA, MGB), along with equipment manufacturers supplying oligonucleotide synthesizers, conjugation systems, and QC instruments (mass spectrometry, capillary electrophoresis); midstream involves synthesis service providers that perform custom sequence design, oligonucleotide synthesis with dual quencher integration, purification (HPLC/PAGE), and rigorous quality verification; downstream connects to research institutions, diagnostic labs, biotech companies, and CROs that use these probes for high-sensitivity applications like pathogen detection, gene expression analysis, and molecular diagnostics, with some flowing into IVD kit manufacturing for clinical use.

The cost structure of Double-quenched Probes is dominated by raw material expenses (dual quencher molecules being the most costly, 20–30% higher than single-quenched systems), followed by synthesis and processing costs (complex conjugation of internal and terminal quenchers increasing labor and time by 15–25%, plus specialized purification), quality control costs (stringent testing for quenching efficiency, signal-to-noise ratio, and stability), and operational overhead (technical support, cold-chain logistics, and design services); unit costs decrease with scale (25nmol+ orders reducing costs by 30–40%), while specialized modifications (LNA, MGB) or diagnostic-grade production add 20–40% premiums.

This report is a detailed and comprehensive analysis for global Double-quenched Probes 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 Double-quenched Probes market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Double-quenched Probes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Double-quenched Probes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Double-quenched Probes market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Double-quenched Probes
- 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 Double-quenched Probes 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 BioCat GmbH, LGC Biosearch Technologies, Amerigo Scientific, Eurogentec, Frilabo, Hylabs–Seegene, Metabion, Beijing Tsingke Biotechnology, Integrated DNA Technologies, Biolegio, etc.

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

Market Segmentation

Double-quenched Probes 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

- Double-quenched TaqMan Probes
- MGB-Modified Double-quenched Probes
- Others

Market segment by Fluorescent Label

Single-Labeled Probes

Dual-Labeled Probes

Market segment by Application

Molecular Diagnostics

Academic Research

Biopharmaceutical Development

Other

Major players covered

BioCat GmbH

LGC Biosearch Technologies

Amerigo Scientific

Eurogentec

Frilabo

Hylabs–Seegene

Metabion

Beijing Tsingke Biotechnology

Integrated DNA Technologies

Biologio

Microsynth

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Double-quenched Probes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Double-quenched Probes, with price, sales quantity, revenue, and global market share of Double-quenched Probes from 2021 to 2026.

Chapter 3, the Double-quenched Probes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Double-quenched Probes 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 Double-quenched Probes 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 Double-quenched Probes.

Chapter 14 and 15, to describe Double-quenched Probes 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 Double-quenched Probes Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Double-quenched TaqMan Probes

1.3.3 MGB-Modified Double-quenched Probes

1.3.4 Others

1.4 Market Analysis by Fluorescent Label

1.4.1 Overview: Global Double-quenched Probes Consumption Value by Fluorescent Label: 2021 Versus 2025 Versus 2032

1.4.2 Single-Labeled Probes

1.4.3 Dual-Labeled Probes

1.5 Market Analysis by Application

1.5.1 Overview: Global Double-quenched Probes Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Molecular Diagnostics

1.5.3 Academic Research

1.5.4 Biopharmaceutical Development

1.5.5 Other

1.6 Global Double-quenched Probes Market Size & Forecast

1.6.1 Global Double-quenched Probes Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Double-quenched Probes Sales Quantity (2021-2032)

1.6.3 Global Double-quenched Probes Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 BioCat GmbH

2.1.1 BioCat GmbH Details

2.1.2 BioCat GmbH Major Business

2.1.3 BioCat GmbH Double-quenched Probes Product and Services

2.1.4 BioCat GmbH Double-quenched Probes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 BioCat GmbH Recent Developments/Updates

2.2 LGC Biosearch Technologies

- 2.2.1 LGC Biosearch Technologies Details
- 2.2.2 LGC Biosearch Technologies Major Business
- 2.2.3 LGC Biosearch Technologies Double-quenched Probes Product and Services
- 2.2.4 LGC Biosearch Technologies Double-quenched Probes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 LGC Biosearch Technologies Recent Developments/Updates
- 2.3 Amerigo Scientific
 - 2.3.1 Amerigo Scientific Details
 - 2.3.2 Amerigo Scientific Major Business
 - 2.3.3 Amerigo Scientific Double-quenched Probes Product and Services
 - 2.3.4 Amerigo Scientific Double-quenched Probes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Amerigo Scientific Recent Developments/Updates
- 2.4 Eurogentec
 - 2.4.1 Eurogentec Details
 - 2.4.2 Eurogentec Major Business
 - 2.4.3 Eurogentec Double-quenched Probes Product and Services
 - 2.4.4 Eurogentec Double-quenched Probes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Eurogentec Recent Developments/Updates
- 2.5 Frilabo
 - 2.5.1 Frilabo Details
 - 2.5.2 Frilabo Major Business
 - 2.5.3 Frilabo Double-quenched Probes Product and Services
 - 2.5.4 Frilabo Double-quenched Probes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Frilabo Recent Developments/Updates
- 2.6 Hylabs–Seegene
 - 2.6.1 Hylabs–Seegene Details
 - 2.6.2 Hylabs–Seegene Major Business
 - 2.6.3 Hylabs–Seegene Double-quenched Probes Product and Services
 - 2.6.4 Hylabs–Seegene Double-quenched Probes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Hylabs–Seegene Recent Developments/Updates
- 2.7 Metabion
 - 2.7.1 Metabion Details
 - 2.7.2 Metabion Major Business
 - 2.7.3 Metabion Double-quenched Probes Product and Services
 - 2.7.4 Metabion Double-quenched Probes Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.7.5 Metabion Recent Developments/Updates

2.8 Beijing Tsingke Biotechnology

2.8.1 Beijing Tsingke Biotechnology Details

2.8.2 Beijing Tsingke Biotechnology Major Business

2.8.3 Beijing Tsingke Biotechnology Double-quenched Probes Product and Services

2.8.4 Beijing Tsingke Biotechnology Double-quenched Probes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Beijing Tsingke Biotechnology Recent Developments/Updates

2.9 Integrated DNA Technologies

2.9.1 Integrated DNA Technologies Details

2.9.2 Integrated DNA Technologies Major Business

2.9.3 Integrated DNA Technologies Double-quenched Probes Product and Services

2.9.4 Integrated DNA Technologies Double-quenched Probes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Integrated DNA Technologies Recent Developments/Updates

2.10 Biolegio

2.10.1 Biolegio Details

2.10.2 Biolegio Major Business

2.10.3 Biolegio Double-quenched Probes Product and Services

2.10.4 Biolegio Double-quenched Probes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Biolegio Recent Developments/Updates

2.11 Microsynth

2.11.1 Microsynth Details

2.11.2 Microsynth Major Business

2.11.3 Microsynth Double-quenched Probes Product and Services

2.11.4 Microsynth Double-quenched Probes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Microsynth Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: DOUBLE-QUENCHED PROBES BY MANUFACTURER

3.1 Global Double-quenched Probes Sales Quantity by Manufacturer (2021-2026)

3.2 Global Double-quenched Probes Revenue by Manufacturer (2021-2026)

3.3 Global Double-quenched Probes Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Double-quenched Probes by Manufacturer Revenue

(\$MM) and Market Share (%): 2025

3.4.2 Top 3 Double-quenched Probes Manufacturer Market Share in 2025

3.4.3 Top 6 Double-quenched Probes Manufacturer Market Share in 2025

3.5 Double-quenched Probes Market: Overall Company Footprint Analysis

3.5.1 Double-quenched Probes Market: Region Footprint

3.5.2 Double-quenched Probes Market: Company Product Type Footprint

3.5.3 Double-quenched Probes 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 Double-quenched Probes Market Size by Region

4.1.1 Global Double-quenched Probes Sales Quantity by Region (2021-2032)

4.1.2 Global Double-quenched Probes Consumption Value by Region (2021-2032)

4.1.3 Global Double-quenched Probes Average Price by Region (2021-2032)

4.2 North America Double-quenched Probes Consumption Value (2021-2032)

4.3 Europe Double-quenched Probes Consumption Value (2021-2032)

4.4 Asia-Pacific Double-quenched Probes Consumption Value (2021-2032)

4.5 South America Double-quenched Probes Consumption Value (2021-2032)

4.6 Middle East & Africa Double-quenched Probes Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Double-quenched Probes Sales Quantity by Type (2021-2032)

5.2 Global Double-quenched Probes Consumption Value by Type (2021-2032)

5.3 Global Double-quenched Probes Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Double-quenched Probes Sales Quantity by Application (2021-2032)

6.2 Global Double-quenched Probes Consumption Value by Application (2021-2032)

6.3 Global Double-quenched Probes Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Double-quenched Probes Sales Quantity by Type (2021-2032)

7.2 North America Double-quenched Probes Sales Quantity by Application (2021-2032)

7.3 North America Double-quenched Probes Market Size by Country

- 7.3.1 North America Double-quenched Probes Sales Quantity by Country (2021-2032)
- 7.3.2 North America Double-quenched Probes 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 Double-quenched Probes Sales Quantity by Type (2021-2032)
- 8.2 Europe Double-quenched Probes Sales Quantity by Application (2021-2032)
- 8.3 Europe Double-quenched Probes Market Size by Country
 - 8.3.1 Europe Double-quenched Probes Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Double-quenched Probes 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 Double-quenched Probes Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Double-quenched Probes Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Double-quenched Probes Market Size by Region
 - 9.3.1 Asia-Pacific Double-quenched Probes Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Double-quenched Probes 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 Double-quenched Probes Sales Quantity by Type (2021-2032)
- 10.2 South America Double-quenched Probes Sales Quantity by Application

(2021-2032)

10.3 South America Double-quenched Probes Market Size by Country

10.3.1 South America Double-quenched Probes Sales Quantity by Country

(2021-2032)

10.3.2 South America Double-quenched Probes 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 Double-quenched Probes Sales Quantity by Type

(2021-2032)

11.2 Middle East & Africa Double-quenched Probes Sales Quantity by Application

(2021-2032)

11.3 Middle East & Africa Double-quenched Probes Market Size by Country

11.3.1 Middle East & Africa Double-quenched Probes Sales Quantity by Country

(2021-2032)

11.3.2 Middle East & Africa Double-quenched Probes 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 Double-quenched Probes Market Drivers

12.2 Double-quenched Probes Market Restraints

12.3 Double-quenched Probes 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 Double-quenched Probes and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Double-quenched Probes
- 13.3 Double-quenched Probes 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 Double-quenched Probes Typical Distributors
- 14.3 Double-quenched Probes 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 Double-quenched Probes Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Double-quenched Probes Consumption Value by Fluorescent Label, (USD Million), 2021 & 2025 & 2032

Table 3. Global Double-quenched Probes Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. BioCat GmbH Basic Information, Manufacturing Base and Competitors

Table 5. BioCat GmbH Major Business

Table 6. BioCat GmbH Double-quenched Probes Product and Services

Table 7. BioCat GmbH Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. BioCat GmbH Recent Developments/Updates

Table 9. LGC Biosearch Technologies Basic Information, Manufacturing Base and Competitors

Table 10. LGC Biosearch Technologies Major Business

Table 11. LGC Biosearch Technologies Double-quenched Probes Product and Services

Table 12. LGC Biosearch Technologies Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. LGC Biosearch Technologies Recent Developments/Updates

Table 14. Amerigo Scientific Basic Information, Manufacturing Base and Competitors

Table 15. Amerigo Scientific Major Business

Table 16. Amerigo Scientific Double-quenched Probes Product and Services

Table 17. Amerigo Scientific Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Amerigo Scientific Recent Developments/Updates

Table 19. Eurogentec Basic Information, Manufacturing Base and Competitors

Table 20. Eurogentec Major Business

Table 21. Eurogentec Double-quenched Probes Product and Services

Table 22. Eurogentec Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Eurogentec Recent Developments/Updates

Table 24. Frilabo Basic Information, Manufacturing Base and Competitors

Table 25. Frilabo Major Business

- Table 26. Frilabo Double-quenched Probes Product and Services
- Table 27. Frilabo Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 28. Frilabo Recent Developments/Updates
- Table 29. Hylabs–Seegene Basic Information, Manufacturing Base and Competitors
- Table 30. Hylabs–Seegene Major Business
- Table 31. Hylabs–Seegene Double-quenched Probes Product and Services
- Table 32. Hylabs–Seegene Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 33. Hylabs–Seegene Recent Developments/Updates
- Table 34. Metabion Basic Information, Manufacturing Base and Competitors
- Table 35. Metabion Major Business
- Table 36. Metabion Double-quenched Probes Product and Services
- Table 37. Metabion Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 38. Metabion Recent Developments/Updates
- Table 39. Beijing Tsingke Biotechnology Basic Information, Manufacturing Base and Competitors
- Table 40. Beijing Tsingke Biotechnology Major Business
- Table 41. Beijing Tsingke Biotechnology Double-quenched Probes Product and Services
- Table 42. Beijing Tsingke Biotechnology Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 43. Beijing Tsingke Biotechnology Recent Developments/Updates
- Table 44. Integrated DNA Technologies Basic Information, Manufacturing Base and Competitors
- Table 45. Integrated DNA Technologies Major Business
- Table 46. Integrated DNA Technologies Double-quenched Probes Product and Services
- Table 47. Integrated DNA Technologies Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 48. Integrated DNA Technologies Recent Developments/Updates
- Table 49. Biologio Basic Information, Manufacturing Base and Competitors
- Table 50. Biologio Major Business
- Table 51. Biologio Double-quenched Probes Product and Services
- Table 52. Biologio Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 53. Biologio Recent Developments/Updates

- Table 54. Microsynth Basic Information, Manufacturing Base and Competitors
- Table 55. Microsynth Major Business
- Table 56. Microsynth Double-quenched Probes Product and Services
- Table 57. Microsynth Double-quenched Probes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 58. Microsynth Recent Developments/Updates
- Table 59. Global Double-quenched Probes Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 60. Global Double-quenched Probes Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 61. Global Double-quenched Probes Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 62. Market Position of Manufacturers in Double-quenched Probes, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 63. Head Office and Double-quenched Probes Production Site of Key Manufacturer
- Table 64. Double-quenched Probes Market: Company Product Type Footprint
- Table 65. Double-quenched Probes Market: Company Product Application Footprint
- Table 66. Double-quenched Probes New Market Entrants and Barriers to Market Entry
- Table 67. Double-quenched Probes Mergers, Acquisition, Agreements, and Collaborations
- Table 68. Global Double-quenched Probes Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 69. Global Double-quenched Probes Sales Quantity by Region (2021-2026) & (K Units)
- Table 70. Global Double-quenched Probes Sales Quantity by Region (2027-2032) & (K Units)
- Table 71. Global Double-quenched Probes Consumption Value by Region (2021-2026) & (USD Million)
- Table 72. Global Double-quenched Probes Consumption Value by Region (2027-2032) & (USD Million)
- Table 73. Global Double-quenched Probes Average Price by Region (2021-2026) & (US\$/Unit)
- Table 74. Global Double-quenched Probes Average Price by Region (2027-2032) & (US\$/Unit)
- Table 75. Global Double-quenched Probes Sales Quantity by Type (2021-2026) & (K Units)
- Table 76. Global Double-quenched Probes Sales Quantity by Type (2027-2032) & (K Units)

Table 77. Global Double-quenched Probes Consumption Value by Type (2021-2026) & (USD Million)

Table 78. Global Double-quenched Probes Consumption Value by Type (2027-2032) & (USD Million)

Table 79. Global Double-quenched Probes Average Price by Type (2021-2026) & (US\$/Unit)

Table 80. Global Double-quenched Probes Average Price by Type (2027-2032) & (US\$/Unit)

Table 81. Global Double-quenched Probes Sales Quantity by Application (2021-2026) & (K Units)

Table 82. Global Double-quenched Probes Sales Quantity by Application (2027-2032) & (K Units)

Table 83. Global Double-quenched Probes Consumption Value by Application (2021-2026) & (USD Million)

Table 84. Global Double-quenched Probes Consumption Value by Application (2027-2032) & (USD Million)

Table 85. Global Double-quenched Probes Average Price by Application (2021-2026) & (US\$/Unit)

Table 86. Global Double-quenched Probes Average Price by Application (2027-2032) & (US\$/Unit)

Table 87. North America Double-quenched Probes Sales Quantity by Type (2021-2026) & (K Units)

Table 88. North America Double-quenched Probes Sales Quantity by Type (2027-2032) & (K Units)

Table 89. North America Double-quenched Probes Sales Quantity by Application (2021-2026) & (K Units)

Table 90. North America Double-quenched Probes Sales Quantity by Application (2027-2032) & (K Units)

Table 91. North America Double-quenched Probes Sales Quantity by Country (2021-2026) & (K Units)

Table 92. North America Double-quenched Probes Sales Quantity by Country (2027-2032) & (K Units)

Table 93. North America Double-quenched Probes Consumption Value by Country (2021-2026) & (USD Million)

Table 94. North America Double-quenched Probes Consumption Value by Country (2027-2032) & (USD Million)

Table 95. Europe Double-quenched Probes Sales Quantity by Type (2021-2026) & (K Units)

Table 96. Europe Double-quenched Probes Sales Quantity by Type (2027-2032) & (K

Units)

Table 97. Europe Double-quenched Probes Sales Quantity by Application (2021-2026) & (K Units)

Table 98. Europe Double-quenched Probes Sales Quantity by Application (2027-2032) & (K Units)

Table 99. Europe Double-quenched Probes Sales Quantity by Country (2021-2026) & (K Units)

Table 100. Europe Double-quenched Probes Sales Quantity by Country (2027-2032) & (K Units)

Table 101. Europe Double-quenched Probes Consumption Value by Country (2021-2026) & (USD Million)

Table 102. Europe Double-quenched Probes Consumption Value by Country (2027-2032) & (USD Million)

Table 103. Asia-Pacific Double-quenched Probes Sales Quantity by Type (2021-2026) & (K Units)

Table 104. Asia-Pacific Double-quenched Probes Sales Quantity by Type (2027-2032) & (K Units)

Table 105. Asia-Pacific Double-quenched Probes Sales Quantity by Application (2021-2026) & (K Units)

Table 106. Asia-Pacific Double-quenched Probes Sales Quantity by Application (2027-2032) & (K Units)

Table 107. Asia-Pacific Double-quenched Probes Sales Quantity by Region (2021-2026) & (K Units)

Table 108. Asia-Pacific Double-quenched Probes Sales Quantity by Region (2027-2032) & (K Units)

Table 109. Asia-Pacific Double-quenched Probes Consumption Value by Region (2021-2026) & (USD Million)

Table 110. Asia-Pacific Double-quenched Probes Consumption Value by Region (2027-2032) & (USD Million)

Table 111. South America Double-quenched Probes Sales Quantity by Type (2021-2026) & (K Units)

Table 112. South America Double-quenched Probes Sales Quantity by Type (2027-2032) & (K Units)

Table 113. South America Double-quenched Probes Sales Quantity by Application (2021-2026) & (K Units)

Table 114. South America Double-quenched Probes Sales Quantity by Application (2027-2032) & (K Units)

Table 115. South America Double-quenched Probes Sales Quantity by Country (2021-2026) & (K Units)

Table 116. South America Double-quenched Probes Sales Quantity by Country (2027-2032) & (K Units)

Table 117. South America Double-quenched Probes Consumption Value by Country (2021-2026) & (USD Million)

Table 118. South America Double-quenched Probes Consumption Value by Country (2027-2032) & (USD Million)

Table 119. Middle East & Africa Double-quenched Probes Sales Quantity by Type (2021-2026) & (K Units)

Table 120. Middle East & Africa Double-quenched Probes Sales Quantity by Type (2027-2032) & (K Units)

Table 121. Middle East & Africa Double-quenched Probes Sales Quantity by Application (2021-2026) & (K Units)

Table 122. Middle East & Africa Double-quenched Probes Sales Quantity by Application (2027-2032) & (K Units)

Table 123. Middle East & Africa Double-quenched Probes Sales Quantity by Country (2021-2026) & (K Units)

Table 124. Middle East & Africa Double-quenched Probes Sales Quantity by Country (2027-2032) & (K Units)

Table 125. Middle East & Africa Double-quenched Probes Consumption Value by Country (2021-2026) & (USD Million)

Table 126. Middle East & Africa Double-quenched Probes Consumption Value by Country (2027-2032) & (USD Million)

Table 127. Double-quenched Probes Raw Material

Table 128. Key Manufacturers of Double-quenched Probes Raw Materials

Table 129. Double-quenched Probes Typical Distributors

Table 130. Double-quenched Probes Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Double-quenched Probes Picture
- Figure 2. Global Double-quenched Probes Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Double-quenched Probes Revenue Market Share by Type in 2025
- Figure 4. Double-quenched TaqMan Probes Examples
- Figure 5. MGB-Modified Double-quenched Probes Examples
- Figure 6. Others Examples
- Figure 7. Global Double-quenched Probes Revenue by Fluorescent Label, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Double-quenched Probes Revenue Market Share by Fluorescent Label in 2025
- Figure 9. Single-Labeled Probes Examples
- Figure 10. Dual-Labeled Probes Examples
- Figure 11. Global Double-quenched Probes Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Double-quenched Probes Revenue Market Share by Application in 2025
- Figure 13. Molecular Diagnostics Examples
- Figure 14. Academic Research Examples
- Figure 15. Biopharmaceutical Development Examples
- Figure 16. Other Examples
- Figure 17. Global Double-quenched Probes Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 18. Global Double-quenched Probes Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 19. Global Double-quenched Probes Sales Quantity (2021-2032) & (K Units)
- Figure 20. Global Double-quenched Probes Price (2021-2032) & (US\$/Unit)
- Figure 21. Global Double-quenched Probes Sales Quantity Market Share by Manufacturer in 2025
- Figure 22. Global Double-quenched Probes Revenue Market Share by Manufacturer in 2025
- Figure 23. Producer Shipments of Double-quenched Probes by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 24. Top 3 Double-quenched Probes Manufacturer (Revenue) Market Share in 2025

Figure 25. Top 6 Double-quenched Probes Manufacturer (Revenue) Market Share in 2025

Figure 26. Global Double-quenched Probes Sales Quantity Market Share by Region (2021-2032)

Figure 27. Global Double-quenched Probes Consumption Value Market Share by Region (2021-2032)

Figure 28. North America Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 29. Europe Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 30. Asia-Pacific Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 31. South America Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 32. Middle East & Africa Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 33. Global Double-quenched Probes Sales Quantity Market Share by Type (2021-2032)

Figure 34. Global Double-quenched Probes Consumption Value Market Share by Type (2021-2032)

Figure 35. Global Double-quenched Probes Average Price by Type (2021-2032) & (US\$/Unit)

Figure 36. Global Double-quenched Probes Sales Quantity Market Share by Application (2021-2032)

Figure 37. Global Double-quenched Probes Revenue Market Share by Application (2021-2032)

Figure 38. Global Double-quenched Probes Average Price by Application (2021-2032) & (US\$/Unit)

Figure 39. North America Double-quenched Probes Sales Quantity Market Share by Type (2021-2032)

Figure 40. North America Double-quenched Probes Sales Quantity Market Share by Application (2021-2032)

Figure 41. North America Double-quenched Probes Sales Quantity Market Share by Country (2021-2032)

Figure 42. North America Double-quenched Probes Consumption Value Market Share by Country (2021-2032)

Figure 43. United States Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 44. Canada Double-quenched Probes Consumption Value (2021-2032) & (USD

Million)

Figure 45. Mexico Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 46. Europe Double-quenched Probes Sales Quantity Market Share by Type (2021-2032)

Figure 47. Europe Double-quenched Probes Sales Quantity Market Share by Application (2021-2032)

Figure 48. Europe Double-quenched Probes Sales Quantity Market Share by Country (2021-2032)

Figure 49. Europe Double-quenched Probes Consumption Value Market Share by Country (2021-2032)

Figure 50. Germany Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 51. France Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 52. United Kingdom Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 53. Russia Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 54. Italy Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 55. Asia-Pacific Double-quenched Probes Sales Quantity Market Share by Type (2021-2032)

Figure 56. Asia-Pacific Double-quenched Probes Sales Quantity Market Share by Application (2021-2032)

Figure 57. Asia-Pacific Double-quenched Probes Sales Quantity Market Share by Region (2021-2032)

Figure 58. Asia-Pacific Double-quenched Probes Consumption Value Market Share by Region (2021-2032)

Figure 59. China Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 60. Japan Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 61. South Korea Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 62. India Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 63. Southeast Asia Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 64. Australia Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 65. South America Double-quenched Probes Sales Quantity Market Share by Type (2021-2032)

Figure 66. South America Double-quenched Probes Sales Quantity Market Share by Application (2021-2032)

Figure 67. South America Double-quenched Probes Sales Quantity Market Share by Country (2021-2032)

Figure 68. South America Double-quenched Probes Consumption Value Market Share by Country (2021-2032)

Figure 69. Brazil Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 70. Argentina Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 71. Middle East & Africa Double-quenched Probes Sales Quantity Market Share by Type (2021-2032)

Figure 72. Middle East & Africa Double-quenched Probes Sales Quantity Market Share by Application (2021-2032)

Figure 73. Middle East & Africa Double-quenched Probes Sales Quantity Market Share by Country (2021-2032)

Figure 74. Middle East & Africa Double-quenched Probes Consumption Value Market Share by Country (2021-2032)

Figure 75. Turkey Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 76. Egypt Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 77. Saudi Arabia Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 78. South Africa Double-quenched Probes Consumption Value (2021-2032) & (USD Million)

Figure 79. Double-quenched Probes Market Drivers

Figure 80. Double-quenched Probes Market Restraints

Figure 81. Double-quenched Probes Market Trends

Figure 82. Porters Five Forces Analysis

Figure 83. Manufacturing Cost Structure Analysis of Double-quenched Probes in 2025

Figure 84. Manufacturing Process Analysis of Double-quenched Probes

Figure 85. Double-quenched Probes Industrial Chain

Figure 86. Sales Channel: Direct to End-User vs Distributors

Figure 87. Direct Channel Pros & Cons

Figure 88. Indirect Channel Pros & Cons

Figure 89. Methodology

Figure 90. Research Process and Data Source

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