

Global Carotenoid Microcapsule Powder Market Growth 2026-2032

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Abstracts

The global Carotenoid Microcapsule Powder market size is predicted to grow from US\$ 174 million in 2025 to US\$ 332 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 2032.

In 2025, the global production volume of carotenoid microcapsule powder reached 8,879 tons, with an average selling price of USD 20 per kg, production capacity of 11,500 tons, and a gross margin of 34%.

Carotenoid Microcapsule Powder is a powdered product in which natural or synthetic carotenoids (such as β -carotene, lutein, zeaxanthin, lycopene, etc.) are encapsulated using microencapsulation techniques like spray drying, freeze drying, coacervation, or co-precipitation with food-grade carriers such as sugars, starch, gelatin, or gum arabic. Microencapsulation significantly enhances the stability, heat resistance, and antioxidant capacity of carotenoids, while improving solubility, dispersibility, and sensory properties, making it suitable for infant formula, functional foods, dietary supplements, beverages, and medical nutrition products.

Upstream of the carotenoid microcapsule powder industry mainly includes raw carotenoids, natural colorants, food-grade carriers, emulsifiers, and microencapsulation equipment such as spray dryers, freeze dryers, homogenizers, and automated mixing systems. The midstream segment consists of microencapsulation manufacturers, whose key barriers lie in carotenoid stability control, encapsulation efficiency optimization, particle uniformity, and compliance with food safety and nutrition standards. Downstream applications cover infant formula, functional foods and beverages, fortified foods, dietary supplements, and medical nutrition products, with demand driven by health trends, consumer awareness of functional foods, and nutrition

fortification policies.

United States market for Carotenoid Microcapsule Powder is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Carotenoid Microcapsule Powder is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Carotenoid Microcapsule Powder is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Carotenoid Microcapsule Powder players cover DSM-Firmenich, BASF, INNOBIO, Zhejiang Tianhecheng Bio-technology, Divi's Nutraceuticals, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carotenoid Microcapsule Powder 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 Carotenoid Microcapsule Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of Carotenoid Microcapsule Powder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Beta-carotene

Lutein

Zeaxanthin

Astaxanthin

Lycopene

Others

Segmentation by Encapsulation Technology:

Spray-Dried

Emulsion-Based

Liposome

Complex Coacervation

Segmentation by Application:

Food & Beverage

Dietary Supplements

Feed

Pharmaceutical & Healthcare

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

DSM-Firmenich

BASF

INNOBIO

Zhejiang Tianhecheng Bio-technology

Divi's Nutraceuticals

Key Questions Addressed in this Report

What is the 10-year outlook for the global Carotenoid Microcapsule Powder market?

What factors are driving Carotenoid Microcapsule Powder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Carotenoid Microcapsule Powder market opportunities vary by end market size?

How does Carotenoid Microcapsule Powder break out by Type, by Application?

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 Carotenoid Microcapsule Powder Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Carotenoid Microcapsule Powder by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Carotenoid Microcapsule Powder by Country/Region, 2021, 2025 & 2032

2.2 Carotenoid Microcapsule Powder Segment by Type

- 2.2.1 Beta-carotene
 - 2.2.2 Lutein
 - 2.2.3 Zeaxanthin
 - 2.2.4 Astaxanthin
 - 2.2.5 Lycopene
 - 2.2.6 Others
 - 2.2.7 Carotenoid Microcapsule Powder Sales by Type
 - 2.2.7.1 Global Carotenoid Microcapsule Powder Sales Market Share by Type (2021-2026)
 - 2.2.7.2 Global Carotenoid Microcapsule Powder Revenue and Market Share by Type (2021-2026)
 - 2.2.7.3 Global Carotenoid Microcapsule Powder Sale Price by Type (2021-2026)
- #### 2.3 Carotenoid Microcapsule Powder Segment by Encapsulation Technology
- 2.3.1 Spray-Dried
 - 2.3.2 Emulsion-Based
 - 2.3.3 Liposome
 - 2.3.4 Complex Coacervation

- 2.3.5 Carotenoid Microcapsule Powder Sales by Encapsulation Technology
 - 2.3.5.1 Global Carotenoid Microcapsule Powder Sales Market Share by Encapsulation Technology (2021-2026)
 - 2.3.5.2 Global Carotenoid Microcapsule Powder Revenue and Market Share by Encapsulation Technology (2021-2026)
 - 2.3.5.3 Global Carotenoid Microcapsule Powder Sale Price by Encapsulation Technology (2021-2026)
- 2.4 Carotenoid Microcapsule Powder Segment by Application
 - 2.4.1 Food & Beverage
 - 2.4.2 Dietary Supplements
 - 2.4.3 Feed
 - 2.4.4 Pharmaceutical & Healthcare
 - 2.4.5 Carotenoid Microcapsule Powder Sales by Application
 - 2.4.5.1 Global Carotenoid Microcapsule Powder Sale Market Share by Application (2021-2026)
 - 2.4.5.2 Global Carotenoid Microcapsule Powder Revenue and Market Share by Application (2021-2026)
 - 2.4.5.3 Global Carotenoid Microcapsule Powder Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Carotenoid Microcapsule Powder Breakdown Data by Company
 - 3.1.1 Global Carotenoid Microcapsule Powder Annual Sales by Company (2021-2026)
 - 3.1.2 Global Carotenoid Microcapsule Powder Sales Market Share by Company (2021-2026)
- 3.2 Global Carotenoid Microcapsule Powder Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Carotenoid Microcapsule Powder Revenue by Company (2021-2026)
 - 3.2.2 Global Carotenoid Microcapsule Powder Revenue Market Share by Company (2021-2026)
- 3.3 Global Carotenoid Microcapsule Powder Sale Price by Company
- 3.4 Key Manufacturers Carotenoid Microcapsule Powder Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Carotenoid Microcapsule Powder Product Location Distribution
 - 3.4.2 Players Carotenoid Microcapsule Powder Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR CAROTENOID MICROCAPSULE POWDER BY GEOGRAPHIC REGION

4.1 World Historic Carotenoid Microcapsule Powder Market Size by Geographic Region (2021-2026)

4.1.1 Global Carotenoid Microcapsule Powder Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Carotenoid Microcapsule Powder Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Carotenoid Microcapsule Powder Market Size by Country/Region (2021-2026)

4.2.1 Global Carotenoid Microcapsule Powder Annual Sales by Country/Region (2021-2026)

4.2.2 Global Carotenoid Microcapsule Powder Annual Revenue by Country/Region (2021-2026)

4.3 Americas Carotenoid Microcapsule Powder Sales Growth

4.4 APAC Carotenoid Microcapsule Powder Sales Growth

4.5 Europe Carotenoid Microcapsule Powder Sales Growth

4.6 Middle East & Africa Carotenoid Microcapsule Powder Sales Growth

5 AMERICAS

5.1 Americas Carotenoid Microcapsule Powder Sales by Country

5.1.1 Americas Carotenoid Microcapsule Powder Sales by Country (2021-2026)

5.1.2 Americas Carotenoid Microcapsule Powder Revenue by Country (2021-2026)

5.2 Americas Carotenoid Microcapsule Powder Sales by Type (2021-2026)

5.3 Americas Carotenoid Microcapsule Powder Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Carotenoid Microcapsule Powder Sales by Region

6.1.1 APAC Carotenoid Microcapsule Powder Sales by Region (2021-2026)

- 6.1.2 APAC Carotenoid Microcapsule Powder Revenue by Region (2021-2026)
- 6.2 APAC Carotenoid Microcapsule Powder Sales by Type (2021-2026)
- 6.3 APAC Carotenoid Microcapsule Powder Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Carotenoid Microcapsule Powder by Country
 - 7.1.1 Europe Carotenoid Microcapsule Powder Sales by Country (2021-2026)
 - 7.1.2 Europe Carotenoid Microcapsule Powder Revenue by Country (2021-2026)
- 7.2 Europe Carotenoid Microcapsule Powder Sales by Type (2021-2026)
- 7.3 Europe Carotenoid Microcapsule Powder Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Carotenoid Microcapsule Powder by Country
 - 8.1.1 Middle East & Africa Carotenoid Microcapsule Powder Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Carotenoid Microcapsule Powder Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Carotenoid Microcapsule Powder Sales by Type (2021-2026)
- 8.3 Middle East & Africa Carotenoid Microcapsule Powder Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Carotenoid Microcapsule Powder
- 10.3 Manufacturing Process Analysis of Carotenoid Microcapsule Powder
- 10.4 Industry Chain Structure of Carotenoid Microcapsule Powder

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Carotenoid Microcapsule Powder Distributors
- 11.3 Carotenoid Microcapsule Powder Customer

12 WORLD FORECAST REVIEW FOR CAROTENOID MICROCAPSULE POWDER BY GEOGRAPHIC REGION

- 12.1 Global Carotenoid Microcapsule Powder Market Size Forecast by Region
 - 12.1.1 Global Carotenoid Microcapsule Powder Forecast by Region (2027-2032)
 - 12.1.2 Global Carotenoid Microcapsule Powder Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Carotenoid Microcapsule Powder Forecast by Type (2027-2032)
- 12.7 Global Carotenoid Microcapsule Powder Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 DSM-Firmenich

- 13.1.1 DSM-Firmenich Company Information
- 13.1.2 DSM-Firmenich Carotenoid Microcapsule Powder Product Portfolios and Specifications
- 13.1.3 DSM-Firmenich Carotenoid Microcapsule Powder Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 DSM-Firmenich Main Business Overview
- 13.1.5 DSM-Firmenich Latest Developments
- 13.2 BASF
 - 13.2.1 BASF Company Information
 - 13.2.2 BASF Carotenoid Microcapsule Powder Product Portfolios and Specifications
 - 13.2.3 BASF Carotenoid Microcapsule Powder Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 BASF Main Business Overview
 - 13.2.5 BASF Latest Developments
- 13.3 INNOBIO
 - 13.3.1 INNOBIO Company Information
 - 13.3.2 INNOBIO Carotenoid Microcapsule Powder Product Portfolios and Specifications
 - 13.3.3 INNOBIO Carotenoid Microcapsule Powder Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 INNOBIO Main Business Overview
 - 13.3.5 INNOBIO Latest Developments
- 13.4 Zhejiang Tianhecheng Bio-technology
 - 13.4.1 Zhejiang Tianhecheng Bio-technology Company Information
 - 13.4.2 Zhejiang Tianhecheng Bio-technology Carotenoid Microcapsule Powder Product Portfolios and Specifications
 - 13.4.3 Zhejiang Tianhecheng Bio-technology Carotenoid Microcapsule Powder Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Zhejiang Tianhecheng Bio-technology Main Business Overview
 - 13.4.5 Zhejiang Tianhecheng Bio-technology Latest Developments
- 13.5 Divi?s Nutraceuticals
 - 13.5.1 Divi?s Nutraceuticals Company Information
 - 13.5.2 Divi?s Nutraceuticals Carotenoid Microcapsule Powder Product Portfolios and Specifications
 - 13.5.3 Divi?s Nutraceuticals Carotenoid Microcapsule Powder Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Divi?s Nutraceuticals Main Business Overview
 - 13.5.5 Divi?s Nutraceuticals Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Carotenoid Microcapsule Powder Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Carotenoid Microcapsule Powder Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Beta-carotene

Table 4. Major Players of Lutein

Table 5. Major Players of Zeaxanthin

Table 6. Major Players of Astaxanthin

Table 7. Major Players of Lycopene

Table 8. Major Players of Others

Table 9. Global Carotenoid Microcapsule Powder Sales by Type (2021-2026) & (Tons)

Table 10. Global Carotenoid Microcapsule Powder Sales Market Share by Type (2021-2026)

Table 11. Global Carotenoid Microcapsule Powder Revenue by Type (2021-2026) & (\$ million)

Table 12. Global Carotenoid Microcapsule Powder Revenue Market Share by Type (2021-2026)

Table 13. Global Carotenoid Microcapsule Powder Sale Price by Type (2021-2026) & (US\$/kg)

Table 14. Major Players of Spray-Dried

Table 15. Major Players of Emulsion-Based

Table 16. Major Players of Liposome

Table 17. Major Players of Complex Coacervation

Table 18. Global Carotenoid Microcapsule Powder Sales by Encapsulation Technology (2021-2026) & (Tons)

Table 19. Global Carotenoid Microcapsule Powder Sales Market Share by Encapsulation Technology (2021-2026)

Table 20. Global Carotenoid Microcapsule Powder Revenue by Encapsulation Technology (2021-2026) & (\$ million)

Table 21. Global Carotenoid Microcapsule Powder Revenue Market Share by Encapsulation Technology (2021-2026)

Table 22. Global Carotenoid Microcapsule Powder Sale Price by Encapsulation Technology (2021-2026) & (US\$/kg)

Table 23. Global Carotenoid Microcapsule Powder Sale by Application (2021-2026) & (Tons)

Table 24. Global Carotenoid Microcapsule Powder Sale Market Share by Application (2021-2026)

Table 25. Global Carotenoid Microcapsule Powder Revenue by Application (2021-2026) & (\$ million)

Table 26. Global Carotenoid Microcapsule Powder Revenue Market Share by Application (2021-2026)

Table 27. Global Carotenoid Microcapsule Powder Sale Price by Application (2021-2026) & (US\$/kg)

Table 28. Global Carotenoid Microcapsule Powder Sales by Company (2021-2026) & (Tons)

Table 29. Global Carotenoid Microcapsule Powder Sales Market Share by Company (2021-2026)

Table 30. Global Carotenoid Microcapsule Powder Revenue by Company (2021-2026) & (\$ millions)

Table 31. Global Carotenoid Microcapsule Powder Revenue Market Share by Company (2021-2026)

Table 32. Global Carotenoid Microcapsule Powder Sale Price by Company (2021-2026) & (US\$/kg)

Table 33. Key Manufacturers Carotenoid Microcapsule Powder Producing Area Distribution and Sales Area

Table 34. Players Carotenoid Microcapsule Powder Products Offered

Table 35. Carotenoid Microcapsule Powder Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 36. New Products and Potential Entrants

Table 37. Market M&A Activity & Strategy

Table 38. Global Carotenoid Microcapsule Powder Sales by Geographic Region (2021-2026) & (Tons)

Table 39. Global Carotenoid Microcapsule Powder Sales Market Share Geographic Region (2021-2026)

Table 40. Global Carotenoid Microcapsule Powder Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 41. Global Carotenoid Microcapsule Powder Revenue Market Share by Geographic Region (2021-2026)

Table 42. Global Carotenoid Microcapsule Powder Sales by Country/Region (2021-2026) & (Tons)

Table 43. Global Carotenoid Microcapsule Powder Sales Market Share by Country/Region (2021-2026)

Table 44. Global Carotenoid Microcapsule Powder Revenue by Country/Region (2021-2026) & (\$ millions)

Table 45. Global Carotenoid Microcapsule Powder Revenue Market Share by Country/Region (2021-2026)

Table 46. Americas Carotenoid Microcapsule Powder Sales by Country (2021-2026) & (Tons)

Table 47. Americas Carotenoid Microcapsule Powder Sales Market Share by Country (2021-2026)

Table 48. Americas Carotenoid Microcapsule Powder Revenue by Country (2021-2026) & (\$ millions)

Table 49. Americas Carotenoid Microcapsule Powder Sales by Type (2021-2026) & (Tons)

Table 50. Americas Carotenoid Microcapsule Powder Sales by Application (2021-2026) & (Tons)

Table 51. APAC Carotenoid Microcapsule Powder Sales by Region (2021-2026) & (Tons)

Table 52. APAC Carotenoid Microcapsule Powder Sales Market Share by Region (2021-2026)

Table 53. APAC Carotenoid Microcapsule Powder Revenue by Region (2021-2026) & (\$ millions)

Table 54. APAC Carotenoid Microcapsule Powder Sales by Type (2021-2026) & (Tons)

Table 55. APAC Carotenoid Microcapsule Powder Sales by Application (2021-2026) & (Tons)

Table 56. Europe Carotenoid Microcapsule Powder Sales by Country (2021-2026) & (Tons)

Table 57. Europe Carotenoid Microcapsule Powder Revenue by Country (2021-2026) & (\$ millions)

Table 58. Europe Carotenoid Microcapsule Powder Sales by Type (2021-2026) & (Tons)

Table 59. Europe Carotenoid Microcapsule Powder Sales by Application (2021-2026) & (Tons)

Table 60. Middle East & Africa Carotenoid Microcapsule Powder Sales by Country (2021-2026) & (Tons)

Table 61. Middle East & Africa Carotenoid Microcapsule Powder Revenue Market Share by Country (2021-2026)

Table 62. Middle East & Africa Carotenoid Microcapsule Powder Sales by Type (2021-2026) & (Tons)

Table 63. Middle East & Africa Carotenoid Microcapsule Powder Sales by Application (2021-2026) & (Tons)

Table 64. Key Market Drivers & Growth Opportunities of Carotenoid Microcapsule Powder

Table 65. Key Market Challenges & Risks of Carotenoid Microcapsule Powder
Table 66. Key Industry Trends of Carotenoid Microcapsule Powder
Table 67. Carotenoid Microcapsule Powder Raw Material
Table 68. Key Suppliers of Raw Materials
Table 69. Carotenoid Microcapsule Powder Distributors List
Table 70. Carotenoid Microcapsule Powder Customer List
Table 71. Global Carotenoid Microcapsule Powder Sales Forecast by Region (2027-2032) & (Tons)
Table 72. Global Carotenoid Microcapsule Powder Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 73. Americas Carotenoid Microcapsule Powder Sales Forecast by Country (2027-2032) & (Tons)
Table 74. Americas Carotenoid Microcapsule Powder Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 75. APAC Carotenoid Microcapsule Powder Sales Forecast by Region (2027-2032) & (Tons)
Table 76. APAC Carotenoid Microcapsule Powder Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 77. Europe Carotenoid Microcapsule Powder Sales Forecast by Country (2027-2032) & (Tons)
Table 78. Europe Carotenoid Microcapsule Powder Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 79. Middle East & Africa Carotenoid Microcapsule Powder Sales Forecast by Country (2027-2032) & (Tons)
Table 80. Middle East & Africa Carotenoid Microcapsule Powder Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 81. Global Carotenoid Microcapsule Powder Sales Forecast by Type (2027-2032) & (Tons)
Table 82. Global Carotenoid Microcapsule Powder Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 83. Global Carotenoid Microcapsule Powder Sales Forecast by Application (2027-2032) & (Tons)
Table 84. Global Carotenoid Microcapsule Powder Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 85. DSM-Firmenich Basic Information, Carotenoid Microcapsule Powder Manufacturing Base, Sales Area and Its Competitors
Table 86. DSM-Firmenich Carotenoid Microcapsule Powder Product Portfolios and Specifications
Table 87. DSM-Firmenich Carotenoid Microcapsule Powder Sales (Tons), Revenue (\$

Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 88. DSM-Firmenich Main Business

Table 89. DSM-Firmenich Latest Developments

Table 90. BASF Basic Information, Carotenoid Microcapsule Powder Manufacturing Base, Sales Area and Its Competitors

Table 91. BASF Carotenoid Microcapsule Powder Product Portfolios and Specifications

Table 92. BASF Carotenoid Microcapsule Powder Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 93. BASF Main Business

Table 94. BASF Latest Developments

Table 95. INNOBIO Basic Information, Carotenoid Microcapsule Powder Manufacturing Base, Sales Area and Its Competitors

Table 96. INNOBIO Carotenoid Microcapsule Powder Product Portfolios and Specifications

Table 97. INNOBIO Carotenoid Microcapsule Powder Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 98. INNOBIO Main Business

Table 99. INNOBIO Latest Developments

Table 100. Zhejiang Tianhecheng Bio-technology Basic Information, Carotenoid Microcapsule Powder Manufacturing Base, Sales Area and Its Competitors

Table 101. Zhejiang Tianhecheng Bio-technology Carotenoid Microcapsule Powder Product Portfolios and Specifications

Table 102. Zhejiang Tianhecheng Bio-technology Carotenoid Microcapsule Powder Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 103. Zhejiang Tianhecheng Bio-technology Main Business

Table 104. Zhejiang Tianhecheng Bio-technology Latest Developments

Table 105. Divi's Nutraceuticals Basic Information, Carotenoid Microcapsule Powder Manufacturing Base, Sales Area and Its Competitors

Table 106. Divi's Nutraceuticals Carotenoid Microcapsule Powder Product Portfolios and Specifications

Table 107. Divi's Nutraceuticals Carotenoid Microcapsule Powder Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 108. Divi's Nutraceuticals Main Business

Table 109. Divi's Nutraceuticals Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Carotenoid Microcapsule Powder

Figure 2. Carotenoid Microcapsule Powder Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Carotenoid Microcapsule Powder Sales Growth Rate 2021-2032 (Tons)

Figure 7. Global Carotenoid Microcapsule Powder Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Carotenoid Microcapsule Powder Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Carotenoid Microcapsule Powder Sales Market Share by Country/Region (2025)

Figure 10. Carotenoid Microcapsule Powder Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Beta-carotene

Figure 12. Product Picture of Lutein

Figure 13. Product Picture of Zeaxanthin

Figure 14. Product Picture of Astaxanthin

Figure 15. Product Picture of Lycopene

Figure 16. Product Picture of Others

Figure 17. Global Carotenoid Microcapsule Powder Sales Market Share by Type in 2026

Figure 18. Global Carotenoid Microcapsule Powder Revenue Market Share by Type (2021-2026)

Figure 19. Product Picture of Spray-Dried

Figure 20. Product Picture of Emulsion-Based

Figure 21. Product Picture of Liposome

Figure 22. Product Picture of Complex Coacervation

Figure 23. Global Carotenoid Microcapsule Powder Sales Market Share by Encapsulation Technology in 2026

Figure 24. Global Carotenoid Microcapsule Powder Revenue Market Share by Encapsulation Technology (2021-2026)

Figure 25. Carotenoid Microcapsule Powder Consumed in Food & Beverage

Figure 26. Global Carotenoid Microcapsule Powder Market: Food & Beverage

(2021-2026) & (Tons)

Figure 27. Carotenoid Microcapsule Powder Consumed in Dietary Supplements

Figure 28. Global Carotenoid Microcapsule Powder Market: Dietary Supplements
(2021-2026) & (Tons)

Figure 29. Carotenoid Microcapsule Powder Consumed in Feed

Figure 30. Global Carotenoid Microcapsule Powder Market: Feed (2021-2026) & (Tons)

Figure 31. Carotenoid Microcapsule Powder Consumed in Pharmaceutical & Healthcare

Figure 32. Global Carotenoid Microcapsule Powder Market: Pharmaceutical &
Healthcare (2021-2026) & (Tons)

Figure 33. Global Carotenoid Microcapsule Powder Sale Market Share by Application
(2025)

Figure 34. Global Carotenoid Microcapsule Powder Revenue Market Share by
Application in 2025

Figure 35. Carotenoid Microcapsule Powder Sales by Company in 2025 (Tons)

Figure 36. Global Carotenoid Microcapsule Powder Sales Market Share by Company in
2025

Figure 37. Carotenoid Microcapsule Powder Revenue by Company in 2025 (\$ millions)

Figure 38. Global Carotenoid Microcapsule Powder Revenue Market Share by
Company in 2025

Figure 39. Global Carotenoid Microcapsule Powder Sales Market Share by Geographic
Region (2021-2026)

Figure 40. Global Carotenoid Microcapsule Powder Revenue Market Share by
Geographic Region in 2025

Figure 41. Americas Carotenoid Microcapsule Powder Sales 2021-2026 (Tons)

Figure 42. Americas Carotenoid Microcapsule Powder Revenue 2021-2026 (\$ millions)

Figure 43. APAC Carotenoid Microcapsule Powder Sales 2021-2026 (Tons)

Figure 44. APAC Carotenoid Microcapsule Powder Revenue 2021-2026 (\$ millions)

Figure 45. Europe Carotenoid Microcapsule Powder Sales 2021-2026 (Tons)

Figure 46. Europe Carotenoid Microcapsule Powder Revenue 2021-2026 (\$ millions)

Figure 47. Middle East & Africa Carotenoid Microcapsule Powder Sales 2021-2026
(Tons)

Figure 48. Middle East & Africa Carotenoid Microcapsule Powder Revenue 2021-2026
(\$ millions)

Figure 49. Americas Carotenoid Microcapsule Powder Sales Market Share by Country
in 2025

Figure 50. Americas Carotenoid Microcapsule Powder Revenue Market Share by
Country (2021-2026)

Figure 51. Americas Carotenoid Microcapsule Powder Sales Market Share by Type
(2021-2026)

Figure 52. Americas Carotenoid Microcapsule Powder Sales Market Share by Application (2021-2026)

Figure 53. United States Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 54. Canada Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 55. Mexico Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 56. Brazil Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 57. APAC Carotenoid Microcapsule Powder Sales Market Share by Region in 2025

Figure 58. APAC Carotenoid Microcapsule Powder Revenue Market Share by Region (2021-2026)

Figure 59. APAC Carotenoid Microcapsule Powder Sales Market Share by Type (2021-2026)

Figure 60. APAC Carotenoid Microcapsule Powder Sales Market Share by Application (2021-2026)

Figure 61. China Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 62. Japan Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 63. South Korea Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 64. Southeast Asia Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 65. India Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 66. Australia Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 67. China Taiwan Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 68. Europe Carotenoid Microcapsule Powder Sales Market Share by Country in 2025

Figure 69. Europe Carotenoid Microcapsule Powder Revenue Market Share by Country (2021-2026)

Figure 70. Europe Carotenoid Microcapsule Powder Sales Market Share by Type (2021-2026)

Figure 71. Europe Carotenoid Microcapsule Powder Sales Market Share by Application

(2021-2026)

Figure 72. Germany Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 73. France Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 74. UK Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 75. Italy Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 76. Russia Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 77. Middle East & Africa Carotenoid Microcapsule Powder Sales Market Share by Country (2021-2026)

Figure 78. Middle East & Africa Carotenoid Microcapsule Powder Sales Market Share by Type (2021-2026)

Figure 79. Middle East & Africa Carotenoid Microcapsule Powder Sales Market Share by Application (2021-2026)

Figure 80. Egypt Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Africa Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 82. Israel Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 83. Turkey Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 84. GCC Countries Carotenoid Microcapsule Powder Revenue Growth 2021-2026 (\$ millions)

Figure 85. Manufacturing Cost Structure Analysis of Carotenoid Microcapsule Powder in 2026

Figure 86. Manufacturing Process Analysis of Carotenoid Microcapsule Powder

Figure 87. Industry Chain Structure of Carotenoid Microcapsule Powder

Figure 88. Channels of Distribution

Figure 89. Global Carotenoid Microcapsule Powder Sales Market Forecast by Region (2027-2032)

Figure 90. Global Carotenoid Microcapsule Powder Revenue Market Share Forecast by Region (2027-2032)

Figure 91. Global Carotenoid Microcapsule Powder Sales Market Share Forecast by Type (2027-2032)

Figure 92. Global Carotenoid Microcapsule Powder Revenue Market Share Forecast by

Type (2027-2032)

Figure 93. Global Carotenoid Microcapsule Powder Sales Market Share Forecast by Application (2027-2032)

Figure 94. Global Carotenoid Microcapsule Powder Revenue Market Share Forecast by Application (2027-2032)

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