

Global Transaminase In Chiral Catalysis Market Growth 2026-2032

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Abstracts

The global Transaminase In Chiral Catalysis market size is predicted to grow from US\$ 172 million in 2025 to US\$ 522 million in 2032; it is expected to grow at a CAGR of 16.9% from 2026 to 2032.

Transaminases in chiral catalysis are enzymes used within chiral catalytic systems to convert ketone or aldehyde substrates into chiral amines with high enantioselectivity. They typically rely on the cofactor pyridoxal phosphate (PLP) and operate through an amino transfer mechanism, transferring an amino group from a donor to the substrate to produce chiral amine products. In pharmaceutical, fine chemical, and agrochemical synthesis, transaminases in chiral catalysis serve as key biocatalytic tools, enhancing product stereochemical purity and process sustainability.

Direct enzyme sales account for around 35%, CDMO and process development services approximately 55%, and the remainder represents implicit technology value. Annual reaction throughput is roughly 15 tons (based on high-value chiral pharmaceutical intermediates), with nominal global enzyme-related capacity of about 60 tons (from laboratory to pilot scale). Pricing averages are approximately USD 3,000/kg for free or immobilized enzymes and USD 5,000/kg for engineered transaminases, with a blended gross margin of around 50%. Downstream demand is dominated by pharmaceuticals (>60%), with agrochemicals and fine chemicals as secondary applications. The upstream includes ketone/aldehyde substrates and cofactors, midstream covers enzyme production and process development, and downstream focuses on high-value chiral amine synthesis. The global industry structure combines innovation and scale-up, with methodology and protein engineering led by the US/EU, and process scale-up and CDMO services led by China. The market is in a growth phase, driven by chiral drug demand and advances in protein engineering, with key

uncertainties related to enzyme stability and scale-up challenges.

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

This Insight Report provides a comprehensive analysis of the global Transaminase In Chiral Catalysis 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 Transaminase In Chiral Catalysis portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Transaminase In Chiral Catalysis market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Transaminase In Chiral Catalysis 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 Transaminase In Chiral Catalysis.

This report presents a comprehensive overview, market shares, and growth opportunities of Transaminase In Chiral Catalysis market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pyridoxal Phosphate Dependent Transaminase

Engineered Transaminase

Biotype Transaminase

Segmentation by From:

Free Enzyme

Immobilized Enzyme

Whole Cell

Enzyme Cocktails

Segmentation by Application:

Pharmaceuticals

Agrochemicals

Fine Chemicals

Materials

Others

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.

Codexis

Evonik

Johnson Matthey

BASF

Novozymes

WuXi AppTec

Asymchem

Lonza

Key Questions Addressed in this Report

What is the 10-year outlook for the global Transaminase In Chiral Catalysis market?

What factors are driving Transaminase In Chiral Catalysis market growth, globally and by region?

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

How do Transaminase In Chiral Catalysis market opportunities vary by end market size?

How does Transaminase In Chiral Catalysis 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 Transaminase In Chiral Catalysis Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Transaminase In Chiral Catalysis by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Transaminase In Chiral Catalysis by Country/Region, 2021, 2025 & 2032
- 2.2 Transaminase In Chiral Catalysis Segment by Type
 - 2.2.1 Pyridoxal Phosphate Dependent Transaminase
 - 2.2.2 Engineered Transaminase
 - 2.2.3 Biotype Transaminase
 - 2.2.4 Transaminase In Chiral Catalysis Sales by Type
 - 2.2.4.1 Global Transaminase In Chiral Catalysis Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Transaminase In Chiral Catalysis Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Transaminase In Chiral Catalysis Sale Price by Type (2021-2026)
- 2.3 Transaminase In Chiral Catalysis Segment by From
 - 2.3.1 Free Enzyme
 - 2.3.2 Immobilized Enzyme
 - 2.3.3 Whole Cell
 - 2.3.4 Enzyme Cocktails
 - 2.3.5 Transaminase In Chiral Catalysis Sales by From
 - 2.3.5.1 Global Transaminase In Chiral Catalysis Sales Market Share by From (2021-2026)

2.3.5.2 Global Transaminase In Chiral Catalysis Revenue and Market Share by From (2021-2026)

2.3.5.3 Global Transaminase In Chiral Catalysis Sale Price by From (2021-2026)

2.4 Transaminase In Chiral Catalysis Segment by Application

2.4.1 Pharmaceuticals

2.4.2 Agrochemicals

2.4.3 Fine Chemicals

2.4.4 Materials

2.4.5 Others

2.4.6 Transaminase In Chiral Catalysis Sales by Application

2.4.6.1 Global Transaminase In Chiral Catalysis Sale Market Share by Application (2021-2026)

2.4.6.2 Global Transaminase In Chiral Catalysis Revenue and Market Share by Application (2021-2026)

2.4.6.3 Global Transaminase In Chiral Catalysis Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Transaminase In Chiral Catalysis Breakdown Data by Company

3.1.1 Global Transaminase In Chiral Catalysis Annual Sales by Company (2021-2026)

3.1.2 Global Transaminase In Chiral Catalysis Sales Market Share by Company (2021-2026)

3.2 Global Transaminase In Chiral Catalysis Annual Revenue by Company (2021-2026)

3.2.1 Global Transaminase In Chiral Catalysis Revenue by Company (2021-2026)

3.2.2 Global Transaminase In Chiral Catalysis Revenue Market Share by Company (2021-2026)

3.3 Global Transaminase In Chiral Catalysis Sale Price by Company

3.4 Key Manufacturers Transaminase In Chiral Catalysis Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Transaminase In Chiral Catalysis Product Location Distribution

3.4.2 Players Transaminase In Chiral Catalysis 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 TRANSAMINASE IN CHIRAL CATALYSIS BY GEOGRAPHIC REGION

4.1 World Historic Transaminase In Chiral Catalysis Market Size by Geographic Region (2021-2026)

4.1.1 Global Transaminase In Chiral Catalysis Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Transaminase In Chiral Catalysis Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Transaminase In Chiral Catalysis Market Size by Country/Region (2021-2026)

4.2.1 Global Transaminase In Chiral Catalysis Annual Sales by Country/Region (2021-2026)

4.2.2 Global Transaminase In Chiral Catalysis Annual Revenue by Country/Region (2021-2026)

4.3 Americas Transaminase In Chiral Catalysis Sales Growth

4.4 APAC Transaminase In Chiral Catalysis Sales Growth

4.5 Europe Transaminase In Chiral Catalysis Sales Growth

4.6 Middle East & Africa Transaminase In Chiral Catalysis Sales Growth

5 AMERICAS

5.1 Americas Transaminase In Chiral Catalysis Sales by Country

5.1.1 Americas Transaminase In Chiral Catalysis Sales by Country (2021-2026)

5.1.2 Americas Transaminase In Chiral Catalysis Revenue by Country (2021-2026)

5.2 Americas Transaminase In Chiral Catalysis Sales by Type (2021-2026)

5.3 Americas Transaminase In Chiral Catalysis Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Transaminase In Chiral Catalysis Sales by Region

6.1.1 APAC Transaminase In Chiral Catalysis Sales by Region (2021-2026)

6.1.2 APAC Transaminase In Chiral Catalysis Revenue by Region (2021-2026)

6.2 APAC Transaminase In Chiral Catalysis Sales by Type (2021-2026)

6.3 APAC Transaminase In Chiral Catalysis 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 Transaminase In Chiral Catalysis by Country
 - 7.1.1 Europe Transaminase In Chiral Catalysis Sales by Country (2021-2026)
 - 7.1.2 Europe Transaminase In Chiral Catalysis Revenue by Country (2021-2026)
- 7.2 Europe Transaminase In Chiral Catalysis Sales by Type (2021-2026)
- 7.3 Europe Transaminase In Chiral Catalysis 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 Transaminase In Chiral Catalysis by Country
 - 8.1.1 Middle East & Africa Transaminase In Chiral Catalysis Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Transaminase In Chiral Catalysis Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Transaminase In Chiral Catalysis Sales by Type (2021-2026)
- 8.3 Middle East & Africa Transaminase In Chiral Catalysis 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 Transaminase In Chiral Catalysis

10.3 Manufacturing Process Analysis of Transaminase In Chiral Catalysis

10.4 Industry Chain Structure of Transaminase In Chiral Catalysis

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Transaminase In Chiral Catalysis Distributors

11.3 Transaminase In Chiral Catalysis Customer

12 WORLD FORECAST REVIEW FOR TRANSAMINASE IN CHIRAL CATALYSIS BY GEOGRAPHIC REGION

12.1 Global Transaminase In Chiral Catalysis Market Size Forecast by Region

12.1.1 Global Transaminase In Chiral Catalysis Forecast by Region (2027-2032)

12.1.2 Global Transaminase In Chiral Catalysis 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 Transaminase In Chiral Catalysis Forecast by Type (2027-2032)

12.7 Global Transaminase In Chiral Catalysis Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Codexis

13.1.1 Codexis Company Information

13.1.2 Codexis Transaminase In Chiral Catalysis Product Portfolios and Specifications

13.1.3 Codexis Transaminase In Chiral Catalysis Sales, Revenue, Price and Gross

Margin (2021-2026)

13.1.4 Codexis Main Business Overview

13.1.5 Codexis Latest Developments

13.2 Evonik

13.2.1 Evonik Company Information

13.2.2 Evonik Transaminase In Chiral Catalysis Product Portfolios and Specifications

13.2.3 Evonik Transaminase In Chiral Catalysis Sales, Revenue, Price and Gross

Margin (2021-2026)

13.2.4 Evonik Main Business Overview

13.2.5 Evonik Latest Developments

13.3 Johnson Matthey

13.3.1 Johnson Matthey Company Information

13.3.2 Johnson Matthey Transaminase In Chiral Catalysis Product Portfolios and Specifications

13.3.3 Johnson Matthey Transaminase In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Johnson Matthey Main Business Overview

13.3.5 Johnson Matthey Latest Developments

13.4 BASF

13.4.1 BASF Company Information

13.4.2 BASF Transaminase In Chiral Catalysis Product Portfolios and Specifications

13.4.3 BASF Transaminase In Chiral Catalysis Sales, Revenue, Price and Gross

Margin (2021-2026)

13.4.4 BASF Main Business Overview

13.4.5 BASF Latest Developments

13.5 Novozymes

13.5.1 Novozymes Company Information

13.5.2 Novozymes Transaminase In Chiral Catalysis Product Portfolios and Specifications

13.5.3 Novozymes Transaminase In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Novozymes Main Business Overview

13.5.5 Novozymes Latest Developments

13.6 WuXi AppTec

13.6.1 WuXi AppTec Company Information

13.6.2 WuXi AppTec Transaminase In Chiral Catalysis Product Portfolios and Specifications

13.6.3 WuXi AppTec Transaminase In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 WuXi AppTec Main Business Overview

13.6.5 WuXi AppTec Latest Developments

13.7 Asymchem

13.7.1 Asymchem Company Information

13.7.2 Asymchem Transaminase In Chiral Catalysis Product Portfolios and Specifications

13.7.3 Asymchem Transaminase In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Asymchem Main Business Overview

13.7.5 Asymchem Latest Developments

13.8 Lonza

13.8.1 Lonza Company Information

13.8.2 Lonza Transaminase In Chiral Catalysis Product Portfolios and Specifications

13.8.3 Lonza Transaminase In Chiral Catalysis Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Lonza Main Business Overview

13.8.5 Lonza Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Transaminase In Chiral Catalysis Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Transaminase In Chiral Catalysis Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Pyridoxal Phosphate Dependent Transaminase

Table 4. Major Players of Engineered Transaminase

Table 5. Major Players of Biotype Transaminase

Table 6. Global Transaminase In Chiral Catalysis Sales by Type (2021-2026) & (Tons)

Table 7. Global Transaminase In Chiral Catalysis Sales Market Share by Type (2021-2026)

Table 8. Global Transaminase In Chiral Catalysis Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Transaminase In Chiral Catalysis Revenue Market Share by Type (2021-2026)

Table 10. Global Transaminase In Chiral Catalysis Sale Price by Type (2021-2026) & (US\$/Ton)

Table 11. Major Players of Free Enzyme

Table 12. Major Players of Immobilized Enzyme

Table 13. Major Players of Whole Cell

Table 14. Major Players of Enzyme Cocktails

Table 15. Global Transaminase In Chiral Catalysis Sales by From (2021-2026) & (Tons)

Table 16. Global Transaminase In Chiral Catalysis Sales Market Share by From (2021-2026)

Table 17. Global Transaminase In Chiral Catalysis Revenue by From (2021-2026) & (\$ million)

Table 18. Global Transaminase In Chiral Catalysis Revenue Market Share by From (2021-2026)

Table 19. Global Transaminase In Chiral Catalysis Sale Price by From (2021-2026) & (US\$/Ton)

Table 20. Global Transaminase In Chiral Catalysis Sale by Application (2021-2026) & (Tons)

Table 21. Global Transaminase In Chiral Catalysis Sale Market Share by Application (2021-2026)

Table 22. Global Transaminase In Chiral Catalysis Revenue by Application (2021-2026) & (\$ million)

Table 23. Global Transaminase In Chiral Catalysis Revenue Market Share by Application (2021-2026)

Table 24. Global Transaminase In Chiral Catalysis Sale Price by Application (2021-2026) & (US\$/Ton)

Table 25. Global Transaminase In Chiral Catalysis Sales by Company (2021-2026) & (Tons)

Table 26. Global Transaminase In Chiral Catalysis Sales Market Share by Company (2021-2026)

Table 27. Global Transaminase In Chiral Catalysis Revenue by Company (2021-2026) & (\$ millions)

Table 28. Global Transaminase In Chiral Catalysis Revenue Market Share by Company (2021-2026)

Table 29. Global Transaminase In Chiral Catalysis Sale Price by Company (2021-2026) & (US\$/Ton)

Table 30. Key Manufacturers Transaminase In Chiral Catalysis Producing Area Distribution and Sales Area

Table 31. Players Transaminase In Chiral Catalysis Products Offered

Table 32. Transaminase In Chiral Catalysis Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 33. New Products and Potential Entrants

Table 34. Market M&A Activity & Strategy

Table 35. Global Transaminase In Chiral Catalysis Sales by Geographic Region (2021-2026) & (Tons)

Table 36. Global Transaminase In Chiral Catalysis Sales Market Share Geographic Region (2021-2026)

Table 37. Global Transaminase In Chiral Catalysis Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 38. Global Transaminase In Chiral Catalysis Revenue Market Share by Geographic Region (2021-2026)

Table 39. Global Transaminase In Chiral Catalysis Sales by Country/Region (2021-2026) & (Tons)

Table 40. Global Transaminase In Chiral Catalysis Sales Market Share by Country/Region (2021-2026)

Table 41. Global Transaminase In Chiral Catalysis Revenue by Country/Region (2021-2026) & (\$ millions)

Table 42. Global Transaminase In Chiral Catalysis Revenue Market Share by Country/Region (2021-2026)

Table 43. Americas Transaminase In Chiral Catalysis Sales by Country (2021-2026) & (Tons)

Table 44. Americas Transaminase In Chiral Catalysis Sales Market Share by Country (2021-2026)

Table 45. Americas Transaminase In Chiral Catalysis Revenue by Country (2021-2026) & (\$ millions)

Table 46. Americas Transaminase In Chiral Catalysis Sales by Type (2021-2026) & (Tons)

Table 47. Americas Transaminase In Chiral Catalysis Sales by Application (2021-2026) & (Tons)

Table 48. APAC Transaminase In Chiral Catalysis Sales by Region (2021-2026) & (Tons)

Table 49. APAC Transaminase In Chiral Catalysis Sales Market Share by Region (2021-2026)

Table 50. APAC Transaminase In Chiral Catalysis Revenue by Region (2021-2026) & (\$ millions)

Table 51. APAC Transaminase In Chiral Catalysis Sales by Type (2021-2026) & (Tons)

Table 52. APAC Transaminase In Chiral Catalysis Sales by Application (2021-2026) & (Tons)

Table 53. Europe Transaminase In Chiral Catalysis Sales by Country (2021-2026) & (Tons)

Table 54. Europe Transaminase In Chiral Catalysis Revenue by Country (2021-2026) & (\$ millions)

Table 55. Europe Transaminase In Chiral Catalysis Sales by Type (2021-2026) & (Tons)

Table 56. Europe Transaminase In Chiral Catalysis Sales by Application (2021-2026) & (Tons)

Table 57. Middle East & Africa Transaminase In Chiral Catalysis Sales by Country (2021-2026) & (Tons)

Table 58. Middle East & Africa Transaminase In Chiral Catalysis Revenue Market Share by Country (2021-2026)

Table 59. Middle East & Africa Transaminase In Chiral Catalysis Sales by Type (2021-2026) & (Tons)

Table 60. Middle East & Africa Transaminase In Chiral Catalysis Sales by Application (2021-2026) & (Tons)

Table 61. Key Market Drivers & Growth Opportunities of Transaminase In Chiral Catalysis

Table 62. Key Market Challenges & Risks of Transaminase In Chiral Catalysis

Table 63. Key Industry Trends of Transaminase In Chiral Catalysis

Table 64. Transaminase In Chiral Catalysis Raw Material

Table 65. Key Suppliers of Raw Materials

Table 66. Transaminase In Chiral Catalysis Distributors List
Table 67. Transaminase In Chiral Catalysis Customer List
Table 68. Global Transaminase In Chiral Catalysis Sales Forecast by Region (2027-2032) & (Tons)
Table 69. Global Transaminase In Chiral Catalysis Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 70. Americas Transaminase In Chiral Catalysis Sales Forecast by Country (2027-2032) & (Tons)
Table 71. Americas Transaminase In Chiral Catalysis Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 72. APAC Transaminase In Chiral Catalysis Sales Forecast by Region (2027-2032) & (Tons)
Table 73. APAC Transaminase In Chiral Catalysis Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 74. Europe Transaminase In Chiral Catalysis Sales Forecast by Country (2027-2032) & (Tons)
Table 75. Europe Transaminase In Chiral Catalysis Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 76. Middle East & Africa Transaminase In Chiral Catalysis Sales Forecast by Country (2027-2032) & (Tons)
Table 77. Middle East & Africa Transaminase In Chiral Catalysis Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 78. Global Transaminase In Chiral Catalysis Sales Forecast by Type (2027-2032) & (Tons)
Table 79. Global Transaminase In Chiral Catalysis Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 80. Global Transaminase In Chiral Catalysis Sales Forecast by Application (2027-2032) & (Tons)
Table 81. Global Transaminase In Chiral Catalysis Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 82. Codexis Basic Information, Transaminase In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors
Table 83. Codexis Transaminase In Chiral Catalysis Product Portfolios and Specifications
Table 84. Codexis Transaminase In Chiral Catalysis Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 85. Codexis Main Business
Table 86. Codexis Latest Developments
Table 87. Evonik Basic Information, Transaminase In Chiral Catalysis Manufacturing

Base, Sales Area and Its Competitors

Table 88. Evonik Transaminase In Chiral Catalysis Product Portfolios and Specifications

Table 89. Evonik Transaminase In Chiral Catalysis Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 90. Evonik Main Business

Table 91. Evonik Latest Developments

Table 92. Johnson Matthey Basic Information, Transaminase In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 93. Johnson Matthey Transaminase In Chiral Catalysis Product Portfolios and Specifications

Table 94. Johnson Matthey Transaminase In Chiral Catalysis Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 95. Johnson Matthey Main Business

Table 96. Johnson Matthey Latest Developments

Table 97. BASF Basic Information, Transaminase In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 98. BASF Transaminase In Chiral Catalysis Product Portfolios and Specifications

Table 99. BASF Transaminase In Chiral Catalysis Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 100. BASF Main Business

Table 101. BASF Latest Developments

Table 102. Novozymes Basic Information, Transaminase In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 103. Novozymes Transaminase In Chiral Catalysis Product Portfolios and Specifications

Table 104. Novozymes Transaminase In Chiral Catalysis Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 105. Novozymes Main Business

Table 106. Novozymes Latest Developments

Table 107. WuXi AppTec Basic Information, Transaminase In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 108. WuXi AppTec Transaminase In Chiral Catalysis Product Portfolios and Specifications

Table 109. WuXi AppTec Transaminase In Chiral Catalysis Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 110. WuXi AppTec Main Business

Table 111. WuXi AppTec Latest Developments

Table 112. Asymchem Basic Information, Transaminase In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 113. Asymchem Transaminase In Chiral Catalysis Product Portfolios and Specifications

Table 114. Asymchem Transaminase In Chiral Catalysis Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 115. Asymchem Main Business

Table 116. Asymchem Latest Developments

Table 117. Lonza Basic Information, Transaminase In Chiral Catalysis Manufacturing Base, Sales Area and Its Competitors

Table 118. Lonza Transaminase In Chiral Catalysis Product Portfolios and Specifications

Table 119. Lonza Transaminase In Chiral Catalysis Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 120. Lonza Main Business

Table 121. Lonza Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Transaminase In Chiral Catalysis
- Figure 2. Transaminase In Chiral Catalysis Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Transaminase In Chiral Catalysis Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Transaminase In Chiral Catalysis Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Transaminase In Chiral Catalysis Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Transaminase In Chiral Catalysis Sales Market Share by Country/Region (2025)
- Figure 10. Transaminase In Chiral Catalysis Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Pyridoxal Phosphate Dependent Transaminase
- Figure 12. Product Picture of Engineered Transaminase
- Figure 13. Product Picture of Biotype Transaminase
- Figure 14. Global Transaminase In Chiral Catalysis Sales Market Share by Type in 2026
- Figure 15. Global Transaminase In Chiral Catalysis Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Free Enzyme
- Figure 17. Product Picture of Immobilized Enzyme
- Figure 18. Product Picture of Whole Cell
- Figure 19. Product Picture of Enzyme Cocktails
- Figure 20. Global Transaminase In Chiral Catalysis Sales Market Share by From in 2026
- Figure 21. Global Transaminase In Chiral Catalysis Revenue Market Share by From (2021-2026)
- Figure 22. Transaminase In Chiral Catalysis Consumed in Pharmaceuticals
- Figure 23. Global Transaminase In Chiral Catalysis Market: Pharmaceuticals (2021-2026) & (Tons)
- Figure 24. Transaminase In Chiral Catalysis Consumed in Agrochemicals
- Figure 25. Global Transaminase In Chiral Catalysis Market: Agrochemicals (2021-2026) & (Tons)

Figure 26. Transaminase In Chiral Catalysis Consumed in Fine Chemicals

Figure 27. Global Transaminase In Chiral Catalysis Market: Fine Chemicals (2021-2026) & (Tons)

Figure 28. Transaminase In Chiral Catalysis Consumed in Materials

Figure 29. Global Transaminase In Chiral Catalysis Market: Materials (2021-2026) & (Tons)

Figure 30. Transaminase In Chiral Catalysis Consumed in Others

Figure 31. Global Transaminase In Chiral Catalysis Market: Others (2021-2026) & (Tons)

Figure 32. Global Transaminase In Chiral Catalysis Sale Market Share by Application (2025)

Figure 33. Global Transaminase In Chiral Catalysis Revenue Market Share by Application in 2025

Figure 34. Transaminase In Chiral Catalysis Sales by Company in 2025 (Tons)

Figure 35. Global Transaminase In Chiral Catalysis Sales Market Share by Company in 2025

Figure 36. Transaminase In Chiral Catalysis Revenue by Company in 2025 (\$ millions)

Figure 37. Global Transaminase In Chiral Catalysis Revenue Market Share by Company in 2025

Figure 38. Global Transaminase In Chiral Catalysis Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Transaminase In Chiral Catalysis Revenue Market Share by Geographic Region in 2025

Figure 40. Americas Transaminase In Chiral Catalysis Sales 2021-2026 (Tons)

Figure 41. Americas Transaminase In Chiral Catalysis Revenue 2021-2026 (\$ millions)

Figure 42. APAC Transaminase In Chiral Catalysis Sales 2021-2026 (Tons)

Figure 43. APAC Transaminase In Chiral Catalysis Revenue 2021-2026 (\$ millions)

Figure 44. Europe Transaminase In Chiral Catalysis Sales 2021-2026 (Tons)

Figure 45. Europe Transaminase In Chiral Catalysis Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Transaminase In Chiral Catalysis Sales 2021-2026 (Tons)

Figure 47. Middle East & Africa Transaminase In Chiral Catalysis Revenue 2021-2026 (\$ millions)

Figure 48. Americas Transaminase In Chiral Catalysis Sales Market Share by Country in 2025

Figure 49. Americas Transaminase In Chiral Catalysis Revenue Market Share by Country (2021-2026)

Figure 50. Americas Transaminase In Chiral Catalysis Sales Market Share by Type (2021-2026)

Figure 51. Americas Transaminase In Chiral Catalysis Sales Market Share by Application (2021-2026)

Figure 52. United States Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Transaminase In Chiral Catalysis Sales Market Share by Region in 2025

Figure 57. APAC Transaminase In Chiral Catalysis Revenue Market Share by Region (2021-2026)

Figure 58. APAC Transaminase In Chiral Catalysis Sales Market Share by Type (2021-2026)

Figure 59. APAC Transaminase In Chiral Catalysis Sales Market Share by Application (2021-2026)

Figure 60. China Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Transaminase In Chiral Catalysis Sales Market Share by Country in 2025

Figure 68. Europe Transaminase In Chiral Catalysis Revenue Market Share by Country (2021-2026)

Figure 69. Europe Transaminase In Chiral Catalysis Sales Market Share by Type (2021-2026)

Figure 70. Europe Transaminase In Chiral Catalysis Sales Market Share by Application

(2021-2026)

Figure 71. Germany Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Transaminase In Chiral Catalysis Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Transaminase In Chiral Catalysis Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Transaminase In Chiral Catalysis Sales Market Share by Application (2021-2026)

Figure 79. Egypt Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Transaminase In Chiral Catalysis Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Transaminase In Chiral Catalysis in 2026

Figure 85. Manufacturing Process Analysis of Transaminase In Chiral Catalysis

Figure 86. Industry Chain Structure of Transaminase In Chiral Catalysis

Figure 87. Channels of Distribution

Figure 88. Global Transaminase In Chiral Catalysis Sales Market Forecast by Region (2027-2032)

Figure 89. Global Transaminase In Chiral Catalysis Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Transaminase In Chiral Catalysis Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Transaminase In Chiral Catalysis Revenue Market Share Forecast by

Type (2027-2032)

Figure 92. Global Transaminase In Chiral Catalysis Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Transaminase In Chiral Catalysis Revenue Market Share Forecast by Application (2027-2032)

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