

Global Food Grade Alkaline Protease Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Food Grade Alkaline Protease market size is expected to reach \$ 178 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Food-grade alkaline protease is a type of proteolytic enzyme preparation used in food processing. Typically produced through the fermentation, extraction, purification, and standardized formulation of bacteria or fungi, it catalyzes the hydrolysis of peptide bonds in proteins under neutral to alkaline pH conditions, yielding polypeptides, short peptides, and amino acids.

Upstream inputs primarily consist of microbial strains, fermentation substrates, and food-grade auxiliary materials. The strains?predominantly *Bacillus* species and certain fungi such as *Aspergillus*?determine the enzyme's pH adaptability, thermal stability, and hydrolysis profile. Fermentation substrates include glucose, starch sugars, corn steep liquor, soybean meal hydrolysate, yeast powder, inorganic salts, nitrogen sources, and defoamers, all of which support high-density fermentation and enzyme protein expression. The midstream sector encompasses strain selection and breeding, fermentation, separation and purification, concentration, formulation, and the production of spray-dried powders or stabilized liquid preparations. Downstream applications include food protein processing, the comprehensive utilization of meat by-products, aquatic product processing, and plant-based protein processing.

In 2025, global sales volume is estimated at approximately 8,000 metric tons, with an average price ranging from \$11 to \$19 per kilogram; major manufacturers typically achieve gross profit margins of approximately 30% to 45%.

The primary drivers for the food-grade alkaline protease industry stem from the food sector's growing demand for mild enzymatic processing, high-value utilization of protein resources, and clean-label production methods. Compared to acid or alkaline hydrolysis, the reaction conditions for food-grade alkaline proteases are milder, allowing for better control over the degree of hydrolysis, molecular weight distribution, solubility, flavor, and functional properties; consequently, their application is expanding across animal, aquatic, and plant proteins, as well as collagen peptides, gelatin hydrolysates, flavoring bases, and nutritional protein ingredients. Future industry competition will shift from a focus solely on enzyme activity and price toward customized hydrolysis solutions, synergistic multi-enzyme systems, flavor control, food safety compliance, and technical service capabilities, with leading multinational enterprises retaining an advantage in the high-end food protein hydrolysis sector.

This report studies the global Food Grade Alkaline Protease production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Food Grade Alkaline Protease and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Food Grade Alkaline Protease that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Food Grade Alkaline Protease total production and demand, 2021-2032, (Tons)
Global Food Grade Alkaline Protease total production value, 2021-2032, (USD Million)
Global Food Grade Alkaline Protease production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Food Grade Alkaline Protease consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Food Grade Alkaline Protease domestic production, consumption, key domestic manufacturers and share
Global Food Grade Alkaline Protease production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Food Grade Alkaline Protease production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Food Grade Alkaline Protease production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Food Grade Alkaline Protease market

based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Novonesis, IFF, AB Enzymes, Kerry Group, Advanced Enzyme Technologies, Enzyme Development Corporation, Sunson Industry Group, Shandong Lonct Enzymes, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Food Grade Alkaline Protease market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Food Grade Alkaline Protease Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Food Grade Alkaline Protease Market, Segmentation by Type:

Bacterial Origin

Fungal Origin

Global Food Grade Alkaline Protease Market, Segmentation by Product Form:

Powder

Liquid

Global Food Grade Alkaline Protease Market, Segmentation by Enzyme Activity Grade:

?100,000 U/g

100,000?200,000 U/g

200,000?300,000 U/g

>300,000 U/g

Global Food Grade Alkaline Protease Market, Segmentation by Application:

Animal Protein

Plant Protein

Condiments

Dairy Products

Other

Companies Profiled:

Novonesis

IFF

AB Enzymes

Kerry Group

Advanced Enzyme Technologies

Enzyme Development Corporation

Sunson Industry Group

Shandong Lonct Enzymes

Key Questions Answered:

1. How big is the global Food Grade Alkaline Protease market?
2. What is the demand of the global Food Grade Alkaline Protease market?
3. What is the year over year growth of the global Food Grade Alkaline Protease market?
4. What is the production and production value of the global Food Grade Alkaline Protease market?
5. Who are the key producers in the global Food Grade Alkaline Protease market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Food Grade Alkaline Protease Introduction
- 1.2 World Food Grade Alkaline Protease Supply & Forecast
 - 1.2.1 World Food Grade Alkaline Protease Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Food Grade Alkaline Protease Production (2021-2032)
 - 1.2.3 World Food Grade Alkaline Protease Pricing Trends (2021-2032)
- 1.3 World Food Grade Alkaline Protease Production by Region (Based on Production Site)
 - 1.3.1 World Food Grade Alkaline Protease Production Value by Region (2021-2032)
 - 1.3.2 World Food Grade Alkaline Protease Production by Region (2021-2032)
 - 1.3.3 World Food Grade Alkaline Protease Average Price by Region (2021-2032)
 - 1.3.4 North America Food Grade Alkaline Protease Production (2021-2032)
 - 1.3.5 Europe Food Grade Alkaline Protease Production (2021-2032)
 - 1.3.6 China Food Grade Alkaline Protease Production (2021-2032)
 - 1.3.7 India Food Grade Alkaline Protease Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Food Grade Alkaline Protease Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Food Grade Alkaline Protease Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Food Grade Alkaline Protease Demand (2021-2032)
- 2.2 World Food Grade Alkaline Protease Consumption by Region
 - 2.2.1 World Food Grade Alkaline Protease Consumption by Region (2021-2026)
 - 2.2.2 World Food Grade Alkaline Protease Consumption Forecast by Region (2027-2032)
- 2.3 United States Food Grade Alkaline Protease Consumption (2021-2032)
- 2.4 China Food Grade Alkaline Protease Consumption (2021-2032)
- 2.5 Europe Food Grade Alkaline Protease Consumption (2021-2032)
- 2.6 Japan Food Grade Alkaline Protease Consumption (2021-2032)
- 2.7 South Korea Food Grade Alkaline Protease Consumption (2021-2032)
- 2.8 ASEAN Food Grade Alkaline Protease Consumption (2021-2032)
- 2.9 India Food Grade Alkaline Protease Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Food Grade Alkaline Protease Production Value by Manufacturer (2021-2026)
- 3.2 World Food Grade Alkaline Protease Production by Manufacturer (2021-2026)
- 3.3 World Food Grade Alkaline Protease Average Price by Manufacturer (2021-2026)
- 3.4 Food Grade Alkaline Protease Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Food Grade Alkaline Protease Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Food Grade Alkaline Protease in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Food Grade Alkaline Protease in 2025
- 3.6 Food Grade Alkaline Protease Market: Overall Company Footprint Analysis
 - 3.6.1 Food Grade Alkaline Protease Market: Region Footprint
 - 3.6.2 Food Grade Alkaline Protease Market: Company Product Type Footprint
 - 3.6.3 Food Grade Alkaline Protease Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Food Grade Alkaline Protease Production Value Comparison
 - 4.1.1 United States VS China: Food Grade Alkaline Protease Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Food Grade Alkaline Protease Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Food Grade Alkaline Protease Production Comparison
 - 4.2.1 United States VS China: Food Grade Alkaline Protease Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Food Grade Alkaline Protease Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Food Grade Alkaline Protease Consumption Comparison
 - 4.3.1 United States VS China: Food Grade Alkaline Protease Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Food Grade Alkaline Protease Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Food Grade Alkaline Protease Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Food Grade Alkaline Protease Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Food Grade Alkaline Protease Production Value (2021-2026)

4.4.3 United States Based Manufacturers Food Grade Alkaline Protease Production (2021-2026)

4.5 China Based Food Grade Alkaline Protease Manufacturers and Market Share

4.5.1 China Based Food Grade Alkaline Protease Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Food Grade Alkaline Protease Production Value (2021-2026)

4.5.3 China Based Manufacturers Food Grade Alkaline Protease Production (2021-2026)

4.6 Rest of World Based Food Grade Alkaline Protease Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Food Grade Alkaline Protease Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Food Grade Alkaline Protease Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Food Grade Alkaline Protease Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Food Grade Alkaline Protease Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Bacterial Origin

5.2.2 Fungal Origin

5.3 Market Segment by Type

5.3.1 World Food Grade Alkaline Protease Production by Type (2021-2032)

5.3.2 World Food Grade Alkaline Protease Production Value by Type (2021-2032)

5.3.3 World Food Grade Alkaline Protease Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCT FORM

6.1 World Food Grade Alkaline Protease Market Size Overview by Product Form: 2021

VS 2025 VS 2032

6.2 Segment Introduction by Product Form

6.2.1 Powder

6.2.2 Liquid

6.3 Market Segment by Product Form

6.3.1 World Food Grade Alkaline Protease Production by Product Form (2021-2032)

6.3.2 World Food Grade Alkaline Protease Production Value by Product Form
(2021-2032)

6.3.3 World Food Grade Alkaline Protease Average Price by Product Form
(2021-2032)

7 MARKET ANALYSIS BY ENZYME ACTIVITY GRADE

7.1 World Food Grade Alkaline Protease Market Size Overview by Enzyme Activity
Grade: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Enzyme Activity Grade

7.2.1 ?100,000 U/g

7.2.2 100,000?200,000 U/g

7.2.3 200,000?300,000 U/g

7.2.4 >300,000 U/g

7.3 Market Segment by Enzyme Activity Grade

7.3.1 World Food Grade Alkaline Protease Production by Enzyme Activity Grade
(2021-2032)

7.3.2 World Food Grade Alkaline Protease Production Value by Enzyme Activity Grade
(2021-2032)

7.3.3 World Food Grade Alkaline Protease Average Price by Enzyme Activity Grade
(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Food Grade Alkaline Protease Market Size Overview by Application: 2021 VS
2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Animal Protein

8.2.2 Plant Protein

8.2.3 Condiments

8.2.4 Dairy Products

8.2.5 Other

8.3 Market Segment by Application

- 8.3.1 World Food Grade Alkaline Protease Production by Application (2021-2032)
- 8.3.2 World Food Grade Alkaline Protease Production Value by Application (2021-2032)
- 8.3.3 World Food Grade Alkaline Protease Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Novonesis

- 9.1.1 Novonesis Details
- 9.1.2 Novonesis Major Business
- 9.1.3 Novonesis Food Grade Alkaline Protease Product and Services
- 9.1.4 Novonesis Food Grade Alkaline Protease Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Novonesis Recent Developments/Updates
- 9.1.6 Novonesis Competitive Strengths & Weaknesses

9.2 IFF

- 9.2.1 IFF Details
- 9.2.2 IFF Major Business
- 9.2.3 IFF Food Grade Alkaline Protease Product and Services
- 9.2.4 IFF Food Grade Alkaline Protease Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 IFF Recent Developments/Updates
- 9.2.6 IFF Competitive Strengths & Weaknesses

9.3 AB Enzymes

- 9.3.1 AB Enzymes Details
- 9.3.2 AB Enzymes Major Business
- 9.3.3 AB Enzymes Food Grade Alkaline Protease Product and Services
- 9.3.4 AB Enzymes Food Grade Alkaline Protease Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 AB Enzymes Recent Developments/Updates
- 9.3.6 AB Enzymes Competitive Strengths & Weaknesses

9.4 Kerry Group

- 9.4.1 Kerry Group Details
- 9.4.2 Kerry Group Major Business
- 9.4.3 Kerry Group Food Grade Alkaline Protease Product and Services
- 9.4.4 Kerry Group Food Grade Alkaline Protease Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Kerry Group Recent Developments/Updates
- 9.4.6 Kerry Group Competitive Strengths & Weaknesses

9.5 Advanced Enzyme Technologies

9.5.1 Advanced Enzyme Technologies Details

9.5.2 Advanced Enzyme Technologies Major Business

9.5.3 Advanced Enzyme Technologies Food Grade Alkaline Protease Product and Services

9.5.4 Advanced Enzyme Technologies Food Grade Alkaline Protease Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Advanced Enzyme Technologies Recent Developments/Updates

9.5.6 Advanced Enzyme Technologies Competitive Strengths & Weaknesses

9.6 Enzyme Development Corporation

9.6.1 Enzyme Development Corporation Details

9.6.2 Enzyme Development Corporation Major Business

9.6.3 Enzyme Development Corporation Food Grade Alkaline Protease Product and Services

9.6.4 Enzyme Development Corporation Food Grade Alkaline Protease Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Enzyme Development Corporation Recent Developments/Updates

9.6.6 Enzyme Development Corporation Competitive Strengths & Weaknesses

9.7 Sunson Industry Group

9.7.1 Sunson Industry Group Details

9.7.2 Sunson Industry Group Major Business

9.7.3 Sunson Industry Group Food Grade Alkaline Protease Product and Services

9.7.4 Sunson Industry Group Food Grade Alkaline Protease Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Sunson Industry Group Recent Developments/Updates

9.7.6 Sunson Industry Group Competitive Strengths & Weaknesses

9.8 Shandong Lonct Enzymes

9.8.1 Shandong Lonct Enzymes Details

9.8.2 Shandong Lonct Enzymes Major Business

9.8.3 Shandong Lonct Enzymes Food Grade Alkaline Protease Product and Services

9.8.4 Shandong Lonct Enzymes Food Grade Alkaline Protease Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Shandong Lonct Enzymes Recent Developments/Updates

9.8.6 Shandong Lonct Enzymes Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Food Grade Alkaline Protease Industry Chain

10.2 Food Grade Alkaline Protease Upstream Analysis

- 10.2.1 Food Grade Alkaline Protease Core Raw Materials
- 10.2.2 Main Manufacturers of Food Grade Alkaline Protease Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Food Grade Alkaline Protease Production Mode
- 10.6 Food Grade Alkaline Protease Procurement Model
- 10.7 Food Grade Alkaline Protease Industry Sales Model and Sales Channels
 - 10.7.1 Food Grade Alkaline Protease Sales Model
 - 10.7.2 Food Grade Alkaline Protease Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Food Grade Alkaline Protease Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Food Grade Alkaline Protease Production Value by Region (2021-2026) & (USD Million)

Table 3. World Food Grade Alkaline Protease Production Value by Region (2027-2032) & (USD Million)

Table 4. World Food Grade Alkaline Protease Production Value Market Share by Region (2021-2026)

Table 5. World Food Grade Alkaline Protease Production Value Market Share by Region (2027-2032)

Table 6. World Food Grade Alkaline Protease Production by Region (2021-2026) & (Tons)

Table 7. World Food Grade Alkaline Protease Production by Region (2027-2032) & (Tons)

Table 8. World Food Grade Alkaline Protease Production Market Share by Region (2021-2026)

Table 9. World Food Grade Alkaline Protease Production Market Share by Region (2027-2032)

Table 10. World Food Grade Alkaline Protease Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Food Grade Alkaline Protease Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Food Grade Alkaline Protease Major Market Trends

Table 13. World Food Grade Alkaline Protease Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Food Grade Alkaline Protease Consumption by Region (2021-2026) & (Tons)

Table 15. World Food Grade Alkaline Protease Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Food Grade Alkaline Protease Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Food Grade Alkaline Protease Producers in 2025

Table 18. World Food Grade Alkaline Protease Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Food Grade Alkaline Protease Producers in 2025

Table 20. World Food Grade Alkaline Protease Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Food Grade Alkaline Protease Company Evaluation Quadrant

Table 22. World Food Grade Alkaline Protease Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Food Grade Alkaline Protease Production Site of Key Manufacturer

Table 24. Food Grade Alkaline Protease Market: Company Product Type Footprint

Table 25. Food Grade Alkaline Protease Market: Company Product Application Footprint

Table 26. Food Grade Alkaline Protease Competitive Factors

Table 27. Food Grade Alkaline Protease New Entrant and Capacity Expansion Plans

Table 28. Food Grade Alkaline Protease Mergers & Acquisitions Activity

Table 29. United States VS China Food Grade Alkaline Protease Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Food Grade Alkaline Protease Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Food Grade Alkaline Protease Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Food Grade Alkaline Protease Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Food Grade Alkaline Protease Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Food Grade Alkaline Protease Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Food Grade Alkaline Protease Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Food Grade Alkaline Protease Production Market Share (2021-2026)

Table 37. China Based Food Grade Alkaline Protease Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Food Grade Alkaline Protease Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Food Grade Alkaline Protease Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Food Grade Alkaline Protease Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Food Grade Alkaline Protease Production Market Share (2021-2026)

Table 42. Rest of World Based Food Grade Alkaline Protease Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Food Grade Alkaline Protease Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Food Grade Alkaline Protease Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Food Grade Alkaline Protease Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Food Grade Alkaline Protease Production Market Share (2021-2026)

Table 47. World Food Grade Alkaline Protease Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Food Grade Alkaline Protease Production by Type (2021-2026) & (Tons)

Table 49. World Food Grade Alkaline Protease Production by Type (2027-2032) & (Tons)

Table 50. World Food Grade Alkaline Protease Production Value by Type (2021-2026) & (USD Million)

Table 51. World Food Grade Alkaline Protease Production Value by Type (2027-2032) & (USD Million)

Table 52. World Food Grade Alkaline Protease Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Food Grade Alkaline Protease Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Food Grade Alkaline Protease Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Food Grade Alkaline Protease Production by Product Form (2021-2026) & (Tons)

Table 56. World Food Grade Alkaline Protease Production by Product Form (2027-2032) & (Tons)

Table 57. World Food Grade Alkaline Protease Production Value by Product Form (2021-2026) & (USD Million)

Table 58. World Food Grade Alkaline Protease Production Value by Product Form (2027-2032) & (USD Million)

Table 59. World Food Grade Alkaline Protease Average Price by Product Form (2021-2026) & (US\$/kg)

Table 60. World Food Grade Alkaline Protease Average Price by Product Form

(2027-2032) & (US\$/kg)

Table 61. World Food Grade Alkaline Protease Production Value by Enzyme Activity Grade, (USD Million), 2021 & 2025 & 2032

Table 62. World Food Grade Alkaline Protease Production by Enzyme Activity Grade (2021-2026) & (Tons)

Table 63. World Food Grade Alkaline Protease Production by Enzyme Activity Grade (2027-2032) & (Tons)

Table 64. World Food Grade Alkaline Protease Production Value by Enzyme Activity Grade (2021-2026) & (USD Million)

Table 65. World Food Grade Alkaline Protease Production Value by Enzyme Activity Grade (2027-2032) & (USD Million)

Table 66. World Food Grade Alkaline Protease Average Price by Enzyme Activity Grade (2021-2026) & (US\$/kg)

Table 67. World Food Grade Alkaline Protease Average Price by Enzyme Activity Grade (2027-2032) & (US\$/kg)

Table 68. World Food Grade Alkaline Protease Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Food Grade Alkaline Protease Production by Application (2021-2026) & (Tons)

Table 70. World Food Grade Alkaline Protease Production by Application (2027-2032) & (Tons)

Table 71. World Food Grade Alkaline Protease Production Value by Application (2021-2026) & (USD Million)

Table 72. World Food Grade Alkaline Protease Production Value by Application (2027-2032) & (USD Million)

Table 73. World Food Grade Alkaline Protease Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World Food Grade Alkaline Protease Average Price by Application (2027-2032) & (US\$/kg)

Table 75. Novonesis Basic Information, Manufacturing Base and Competitors

Table 76. Novonesis Major Business

Table 77. Novonesis Food Grade Alkaline Protease Product and Services

Table 78. Novonesis Food Grade Alkaline Protease Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Novonesis Recent Developments/Updates

Table 80. Novonesis Competitive Strengths & Weaknesses

Table 81. IFF Basic Information, Manufacturing Base and Competitors

Table 82. IFF Major Business

Table 83. IFF Food Grade Alkaline Protease Product and Services

Table 84. IFF Food Grade Alkaline Protease Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. IFF Recent Developments/Updates
Table 86. IFF Competitive Strengths & Weaknesses
Table 87. AB Enzymes Basic Information, Manufacturing Base and Competitors
Table 88. AB Enzymes Major Business
Table 89. AB Enzymes Food Grade Alkaline Protease Product and Services
Table 90. AB Enzymes Food Grade Alkaline Protease Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. AB Enzymes Recent Developments/Updates
Table 92. AB Enzymes Competitive Strengths & Weaknesses
Table 93. Kerry Group Basic Information, Manufacturing Base and Competitors
Table 94. Kerry Group Major Business
Table 95. Kerry Group Food Grade Alkaline Protease Product and Services
Table 96. Kerry Group Food Grade Alkaline Protease Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Kerry Group Recent Developments/Updates
Table 98. Kerry Group Competitive Strengths & Weaknesses
Table 99. Advanced Enzyme Technologies Basic Information, Manufacturing Base and Competitors
Table 100. Advanced Enzyme Technologies Major Business
Table 101. Advanced Enzyme Technologies Food Grade Alkaline Protease Product and Services
Table 102. Advanced Enzyme Technologies Food Grade Alkaline Protease Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Advanced Enzyme Technologies Recent Developments/Updates
Table 104. Advanced Enzyme Technologies Competitive Strengths & Weaknesses
Table 105. Enzyme Development Corporation Basic Information, Manufacturing Base and Competitors
Table 106. Enzyme Development Corporation Major Business
Table 107. Enzyme Development Corporation Food Grade Alkaline Protease Product and Services
Table 108. Enzyme Development Corporation Food Grade Alkaline Protease Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Enzyme Development Corporation Recent Developments/Updates
Table 110. Enzyme Development Corporation Competitive Strengths & Weaknesses
Table 111. Sunson Industry Group Basic Information, Manufacturing Base and

Competitors

Table 112. Sunson Industry Group Major Business

Table 113. Sunson Industry Group Food Grade Alkaline Protease Product and Services

Table 114. Sunson Industry Group Food Grade Alkaline Protease Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Sunson Industry Group Recent Developments/Updates

Table 116. Sunson Industry Group Competitive Strengths & Weaknesses

Table 117. Shandong Lonct Enzymes Basic Information, Manufacturing Base and Competitors

Table 118. Shandong Lonct Enzymes Major Business

Table 119. Shandong Lonct Enzymes Food Grade Alkaline Protease Product and Services

Table 120. Shandong Lonct Enzymes Food Grade Alkaline Protease Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Shandong Lonct Enzymes Recent Developments/Updates

Table 122. Shandong Lonct Enzymes Competitive Strengths & Weaknesses

Table 123. Global Key Players of Food Grade Alkaline Protease Upstream (Raw Materials)

Table 124. Global Food Grade Alkaline Protease Typical Customers

Table 125. Food Grade Alkaline Protease Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Food Grade Alkaline Protease Picture

Figure 2. World Food Grade Alkaline Protease Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Food Grade Alkaline Protease Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Food Grade Alkaline Protease Production (2021-2032) & (Tons)

Figure 5. World Food Grade Alkaline Protease Average Price (2021-2032) & (US\$/kg)

Figure 6. World Food Grade Alkaline Protease Production Value Market Share by Region (2021-2032)

Figure 7. World Food Grade Alkaline Protease Production Market Share by Region (2021-2032)

Figure 8. North America Food Grade Alkaline Protease Production (2021-2032) & (Tons)

Figure 9. Europe Food Grade Alkaline Protease Production (2021-2032) & (Tons)

Figure 10. China Food Grade Alkaline Protease Production (2021-2032) & (Tons)

Figure 11. India Food Grade Alkaline Protease Production (2021-2032) & (Tons)

Figure 12. Food Grade Alkaline Protease Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Food Grade Alkaline Protease Consumption (2021-2032) & (Tons)

Figure 15. World Food Grade Alkaline Protease Consumption Market Share by Region (2021-2032)

Figure 16. United States Food Grade Alkaline Protease Consumption (2021-2032) & (Tons)

Figure 17. China Food Grade Alkaline Protease Consumption (2021-2032) & (Tons)

Figure 18. Europe Food Grade Alkaline Protease Consumption (2021-2032) & (Tons)

Figure 19. Japan Food Grade Alkaline Protease Consumption (2021-2032) & (Tons)

Figure 20. South Korea Food Grade Alkaline Protease Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Food Grade Alkaline Protease Consumption (2021-2032) & (Tons)

Figure 22. India Food Grade Alkaline Protease Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Food Grade Alkaline Protease by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Food Grade Alkaline Protease Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Food Grade Alkaline

Protease Markets in 2025

Figure 26. United States VS China: Food Grade Alkaline Protease Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Food Grade Alkaline Protease Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Food Grade Alkaline Protease Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Food Grade Alkaline Protease Production Market Share 2025

Figure 30. China Based Manufacturers Food Grade Alkaline Protease Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Food Grade Alkaline Protease Production Market Share 2025

Figure 32. World Food Grade Alkaline Protease Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Food Grade Alkaline Protease Production Value Market Share by Type in 2025

Figure 34. Bacterial Origin

Figure 35. Fungal Origin

Figure 36. World Food Grade Alkaline Protease Production Market Share by Type (2021-2032)

Figure 37. World Food Grade Alkaline Protease Production Value Market Share by Type (2021-2032)

Figure 38. World Food Grade Alkaline Protease Average Price by Type (2021-2032) & (US\$/kg)

Figure 39. World Food Grade Alkaline Protease Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 40. World Food Grade Alkaline Protease Production Value Market Share by Product Form in 2025

Figure 41. Powder

Figure 42. Liquid

Figure 43. World Food Grade Alkaline Protease Production Market Share by Product Form (2021-2032)

Figure 44. World Food Grade Alkaline Protease Production Value Market Share by Product Form (2021-2032)

Figure 45. World Food Grade Alkaline Protease Average Price by Product Form (2021-2032) & (US\$/kg)

Figure 46. World Food Grade Alkaline Protease Production Value by Enzyme Activity Grade, (USD Million), 2021 & 2025 & 2032

Figure 47. World Food Grade Alkaline Protease Production Value Market Share by Enzyme Activity Grade in 2025

Figure 48. <100,000 U/g

Figure 49. 100,000-200,000 U/g

Figure 50. 200,000-300,000 U/g

Figure 51. >300,000 U/g

Figure 52. World Food Grade Alkaline Protease Production Market Share by Enzyme Activity Grade (2021-2032)

Figure 53. World Food Grade Alkaline Protease Production Value Market Share by Enzyme Activity Grade (2021-2032)

Figure 54. World Food Grade Alkaline Protease Average Price by Enzyme Activity Grade (2021-2032) & (US\$/kg)

Figure 55. World Food Grade Alkaline Protease Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Food Grade Alkaline Protease Production Value Market Share by Application in 2025

Figure 57. Animal Protein

Figure 58. Plant Protein

Figure 59. Condiments

Figure 60. Dairy Products

Figure 61. Other

Figure 62. World Food Grade Alkaline Protease Production Market Share by Application (2021-2032)

Figure 63. World Food Grade Alkaline Protease Production Value Market Share by Application (2021-2032)

Figure 64. World Food Grade Alkaline Protease Average Price by Application (2021-2032) & (US\$/kg)

Figure 65. Food Grade Alkaline Protease Industry Chain

Figure 66. Food Grade Alkaline Protease Procurement Model

Figure 67. Food Grade Alkaline Protease Sales Model

Figure 68. Food Grade Alkaline Protease Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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