

Global Amino Acids Market – Products and Applications

“The report reviews, analyzes and projects the global market for Amino Acids for the period 2017-2026. Amino Acids product types analyzed in this study include L-Glutamic Acid/MSG, L-Lysine, Methionine, L-Threonine, L-Tryptophan, Glycine, L-Phenylalanine, L-Aspartic Acid, L-Glutamine, L-Cysteine, L-Arginine, L-Alanine, L-Proline, L-Valine, L-Leucine, L-Isoleucine and L-Tyrosine.”

Published: May 2021

Report Code: FB011

Pages: 418

Charts: 437

Price: \$4860 Single User License, \$7560 Enterprise License

Report Synopsis

Over the forecast period global demand for amino acids is projected to register a healthy CAGR of 5%, mainly driven by above average growth in animal feed sector and sustained growth in nutraceutical and pharmaceutical sectors. Animal feed constitutes the largest, and the fastest growing application for amino acids globally. The global volume consumption of amino acids in animal feed and nutraceutical applications is projected to grow with corresponding CAGRs of 6.1% and 5.5% respectively.

Cornering an estimated share of 53.7% in 2020, the global value market for Amino Acids is the largest for Animal Feed applications, which is projected to reach US\$15.8 billion by 2026 to reflect the fastest CAGR of 6% between the two years. Overall Amino Acids market growth was impacted by African Swine Fever (ASF) and COVID-19 with the slowest growth rates in terms of both volume and value in 2020.

- Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments
- Major companies profiled – 91
- The industry guide includes the contact details for 219 companies

Product Outline

The report analyzes the market for product segments of Amino Acids including:

- L-Glutamic Acid/MSG
- L-Lysine
- Methionine
- L-Threonine
- L-Tryptophan
- Glycine
- L-Phenylalanine
- L-Aspartic Acid
- Specialty Amino Acids
 - L-Glutamine
 - L-Cysteine
 - L-Arginine
 - L-Alanine
 - L-Proline
 - L-Valine
 - L-Leucine
 - L-Isoleucine
 - L-Tyrosine

End-use applications of Amino Acids analyzed comprise the following:

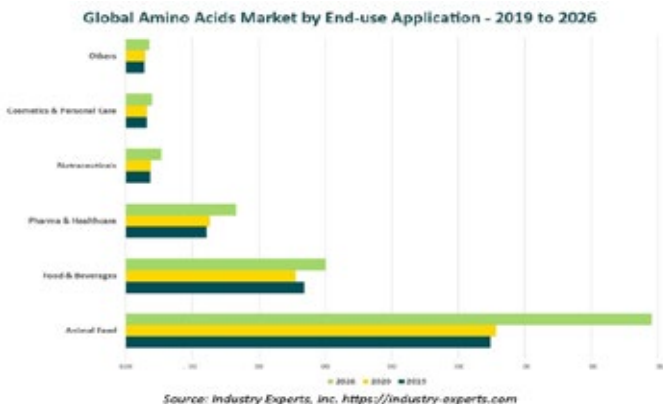
- Animal Feed
- Food & Beverages
- Pharma & Health Care
- Nutraceuticals
- Cosmetics & Personal Care
- Others

Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Amino Acids market for the period 2017-2026 in terms volume in metric tons, market value in US\$ and the compound annual growth rates (CAGRs) projected from 2020 through 2026 with special focus on y-o-y for 2020

Geographic Coverage

- **North America** (The United States, Canada and Mexico)
- **Europe** (France, Germany, Italy, the Netherlands, Poland, Russia, Spain, The United Kingdom and Rest of Europe)
- **Asia-Pacific** (China, India, Indonesia, Japan, South Korea and Rest of Asia-Pacific)
- **South America** (Argentina, Brazil and Rest of South America)
- **Rest of World**



Research Findings & Coverage

- Worldwide Amino Acids market is analyzed in this report for its product segments/sub-types and end-use applications
- The report exclusively analyzes each end-use sector by amino acid type for its consumption in terms of both volume and value
- Rising Demand for Animal Protein to Aid the Growth of Amino Acids Usage in Compound Feed Production
- Burgeoning Opportunities for Amino Acids in High Growth Aquaculture Industry
- BCAA Enriched Foods Claimed to Extend Lifespan
- Next Limiting Amino Acid L-Valine Fueling Growth for BCAAs in the Animal Feed Sector
- Demand for BCAAs in Nutraceuticals to Get a Boost from Sports Nutrition

SAMPLE COMPANY PROFILE

AJINOMOTO CO., INC. (JAPAN)

15-1, Kyobashi 1-chome, Chuo-ku, Tokyo 104-8315
Phone: +81 3 5250 8111
Website: www.ajinomoto.com

Business Overview

Incorporated in 1909, Ajinomoto Co., Inc is a leading global developer and manufacturer of seasonings, processed foods, beverages, food ingredients, amino acids, pharmaceuticals and specialty chemicals. The company offers its products and solutions to animal feed, food and human health sectors through its amino acid technologies. The company operates in 27 countries with major subsidiaries and affiliates span across Europe & Africa, Asia, The Americas and other regions and employs around 33,000 people worldwide. Globally Ajinomoto operates 86 food production plants, 24 amino acid and specialty chemicals plants, 1 pharmaceuticals and 7 other production plants. Ajinomoto has five manufacturing bases for feed grade amino acid production around the world. They are in Thailand, China, France, Brazil and USA. Ajinomoto produces pharma and food grade amino acids at plants located in Japan, United States and China. Ajinomoto is the leading manufacturer and supplier of amino acids globally, producing complete range of amino acids for animal feed, food, pharmaceuticals, nutraceuticals and cosmetics & personal care applications.

Product Portfolio

Ajinomoto produces amino acids such as L-glutamate for food & beverages industry; L-lysine, L-threonine, L-tryptophan and L-valine for animal feed industry; and glycine and L-amino acids for food, pharmaceuticals, nutraceuticals and cosmetics industries. Ajinomoto also produces amino acids based nutraceuticals and cosmetics. Ajinomoto's amino acid supplements offerings include fusi-BCAA® (L-leucine, L-isoleucine, L-valine), glutamimmune® (L-glutamine), fusil® (L-leucine), argiflow® (L-arginine), tryptopure® (L-tryptophan), aminostable (L-alanyl-L-glutamine).

Monosodium Glutamate

Ajinomoto is the first company to produce L-glutamate/monosodium glutamate (MSG) industrially in the world. Still Ajinomoto is one of the leading producers of MSG worldwide. The company's MSG is marketed under AJI-NO-MOTO brand.

Feed-grade Amino Acids

Ajinomoto produces various feed-grade amino acids using fermentation technology. Products include L-Lysine mono-hydrochloride, AjiLys® Liquid L-Lysine, AjiPro®-L Rumen Protected L-Lysine, L-Threonine, L-Tryptophan, L-Valine and L-Isoleucine for animal agriculture and companion animal nutrition programs.

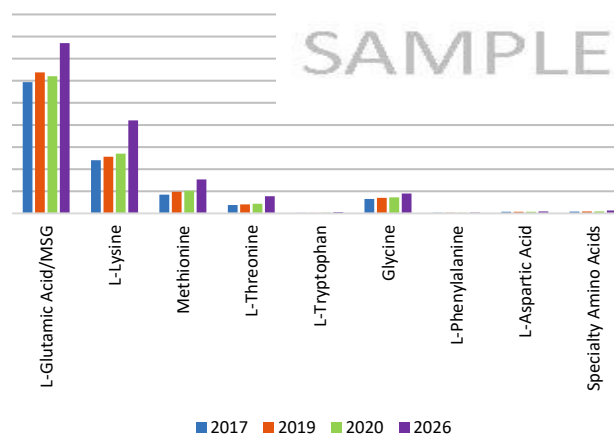
.....more

SAMPLE TABLE/CHART

Glance at 2020 Global Amino Acids Volume Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World



Asia-Pacific Amino Acids Market Analysis (2017-2026) by Product Type – L-Glutamic Acid/MSG, L-Lysine, Methionine, L-Threonine, L-Tryptophan, Glycine, L-Phenylalanine, L-Aspartic Acid and Specialty Amino Acids in Metric Tons



KEY PLAYERS PROFILED

- Adisseo France S.A.S
- Ajinomoto Co., Inc.
- Archer Daniels Midland Company
- CJ CheilJedang Corporation
- Daesang Corporation
- Evonik Industries AG
- Fufeng Group Company Limited
- Global Bio-Chem Technology Group Company Limited
- Hebei Donghua Chemical Group
- Linghua Group Limited
- Meihua Holdings Group Co., Ltd.
- Newtrend Group
- Ningxia Eppen Biotech Co., Ltd
- Ningxia Unisplendour Tianhua Methionine Co., Ltd.
- Novus International, Inc.
- Shijiazhuang Donghua Jinlong Chemical Co., Ltd.
- Sumitomo Chemical Company, Limited
- Zhejiang NHU Co., Ltd.

.....more

TABLE OF CONTENTS

PART A: GLOBAL MARKET PERSPECTIVE 1

1. INTRODUCTION1

ASF and COVID-19 Impact on the Global Amino Acids Market 2

1.1 Product Outline..... 7

1.1.1 What are Amino Acids?..... 7

1.1.2 Types of Amino Acids..... 7

1.1.2.1 Essential and Non-Essential Amino Acids..... 8

1.1.2.1.1 Essential Amino Acids 8

1.1.2.1.2 Non-Essential Amino Acids 8

1.1.2.2 Amino Acids Classification Based on Charge and Polarity of Side Chains 9

1.1.2.3 Glycogenic and Ketogenic Amino Acids 9

1.1.2.4 Amino Acids Classification Based on Structure 9

1.1.2.5 Amino Acids Classification Based on Functionality 10

1.1.2.5.1 Neurotransmitter Amino Acids 10

1.1.2.5.2 Branched Chain Amino Acids (BCAA) 11

1.1.2.5.3 Sulfur-Containing Amino Acids 11

1.1.2.5.4 Glycogenic Amino Acids 11

1.1.2.5.5 Urea Cycle Amino Acids 11

1.1.2.5.6 Connective Tissue Amino Acids..... 11

1.1.3 Production Processes of Amino Acids 12

1.1.3.1 Protein Hydrolysis..... 12

1.1.3.2 Chemical Synthesis 13

1.1.3.3 Microbiological Methods 13

1.1.4 Amino Acids and Their Applications..... 15

1.1.4.1 Animal Feed 15

1.1.4.1.1 Contribution in Protein Supply..... 17

1.1.4.1.2 Contribution to Protecting the Environment ..18

1.1.4.2 Food & Beverages 18

1.1.4.3 Pharmaceuticals & Healthcare..... 18

1.1.4.4 Nutraceuticals..... 19

1.1.4.5 Cosmetics & Personal Care Products 20

1.1.4.6 Other Applications 21

1.1.4.7 L-Alanine 21

1.1.4.8 L-Arginine..... 23

1.1.4.9 L-Asparagine 24

1.1.4.10 L-Aspartic Acid 25

1.1.4.11 L-Cysteine/L-Cystine 26

1.1.4.12 L-Glutamic acid/MSG 30

1.1.4.13 L-Glutamine 32

1.1.4.14 Glycine 33

1.1.4.15 L-Histidine 35

1.1.4.16 L-Lysine 36

1.1.4.17 Methionine 38

1.1.4.18 L-Phenylalanine..... 39

1.1.4.19 L-Proline..... 41

1.1.4.20 L-Serine..... 42

1.1.4.21 L-Threonine..... 43

1.1.4.22 L-Tryptophan 44

1.1.4.23 L-Tyrosine 46

1.1.4.24 Branched Chain Amino Acids (BCAA) 48

1.1.4.24.1 L-Leucine..... 48

1.1.4.24.2 L-Isoleucine 50

1.1.4.24.3 L-Valine 51

2. KEY MARKET TRENDS 53

2.1 Rising Demand for Animal Protein to Aid the Growth of Amino Acids Usage in Compound Feed Production 53

2.2 Burgeoning Opportunities for Amino Acids in High Growth Aquaculture Industry 56

2.3 BCAA Enriched Foods Claimed to Extend Lifespan...57

2.4 Next Limiting Amino Acid L-Valine Fueling Growth for BCAAs in the Animal Feed Sector 58

2.5 Demand for BCAAs in Nutraceuticals to Get a Boost from Sports Nutrition 59

3. KEY GLOBAL PLAYERS..... 60

Adisseo France S.A.S (France) 60

Ajinomoto Co., Inc. (Japan) 61

Archer Daniels Midland Company (United States) 67

CJ CheilJedang Corporation (South Korea) 68

Daesang Corporation (South Korea)..... 72

Evonik Industries AG (Germany) 73

Fufeng Group Company Limited (China) 77

Global Bio-Chem Technology Group Company Limited (Hong Kong)..... 78

Hebei Donghua Chemical Group (China)..... 78

Kyowa HAKKO Bio Co., Ltd. (Japan) 79

Linghua Group Limited (China)..... 81

Meihua Holdings Group Co., Ltd. (China) 82

Newtrend Group (China)..... 83

Ningxia Eppen Biotech Co., Ltd (China) 84

Ningxia Unisplendour Tianhua Methionine Co.,Ltd. (China) .. 85

Nippon Rika Co., Ltd. (Japan) 86

Novus International, Inc. (United States) 87

Shijiazhuang Donghua Jinlong Chemical Co., Ltd. (China) 88

Sumitomo Chemical Company, Limited (Japan) 89

Vedan International (Holdings) Limited (Vietnam)..... 90

Zhejiang NHU Co., Ltd. (China) 91

4. KEY BUSINESS & PRODUCT TRENDS..... 92

MEtabolic Explorer to Acquire Ajinomoto Europe's Amino Acids Subsidiary 92

ADM to Stop Dry Lysine Production in 2021 92

Evonik Concentrates Methionine Production at Three Locations and Ends Production at Wesseling, Germany.. 92

Evonik Introduces its Own Guanidinoacetic Acid Product GuanAMINO®..... 92

Amino GmbH Registers US FDA Drug Master File for its Threonine 93

ADM Animal Nutrition Launches NutriPass™ L Encapsulated Lysine..... 93

Amino GmbH Doubling its Production Capacity of Pharmaceutical Grade Amino Acids 93

CJ BIO Successfully Develops the World's First Fermentation Technology for Production of L-Methionine ... 93

Russia based Saratov Biotechnologies Starts Construction of L-lysine HCl plant 93

Evonik Resumes Production of Methionine in Antwerp, Belgium..... 93

CPS Performance Materials Acquires GEO Specialty Chemicals..... 94

Ajinomoto to Build New Seasonings Plant in Malaysia.... 94

Ajinomoto Plans to Increase Amisoft Amino Acid-Based Surfactants Capacity at its Brazil Plant 94

Evonik Starts Second Plant for MetAMINO® Methionine Production in Singapore..... 94

Adisseo Ends Its Ruminant Feed Additives Distribution Agreement with Kemira 94

Evonik Inks Deal with Halchemix Canada for the Distribution of Mepron® Methionine in Canada 95

WACKER Starts Marketing Cystine and Cysteine Products Under New Brand Name FERMOPURE® 95

ADM Strengthens its Animal Nutrition Business with the Acquisition of Neovia 95

CJ CheilJedang to Expand Lysine Production in Brazil 95

Sumitomo Chemical Commences Production at its New Methionine Plant in Ehime..... 95

WACKER Commences Production of Cystine in Spain 95

Zhejiang NHU to Build 250K Tons Methionine Plant in China..... 96

CJ CheilJedang to Increase Production Capacity of L-Arginine and L-Citrulline in Indonesia 96

Evonik Terminates Production of ThreAMINO® at Kaba Plant in Hungary 96

Amino GmbH Establishes Amino Acids Premix Company AMixCo Premix GmbH..... 96

Adisseo Acquires Feed Additives Producer Nutriad..... 96

ADM Animal Nutrition Introduces PROPLEX T High-Concentrate Protein..... 96

Adisseo Commences Construction of 180K Tons/Annum Liquid Methionine Plant in Nanjing, China..... 97

CJ Bio America to Construct New Threonine Production Line at Fort Dodge Plant 97

Evonik Partners with Fufeng Group to Produce L-threonine in China 97

5. GLOBAL MARKET OVERVIEW 98

5.1 Global Amino Acids Market Overview by Product Type..... 99

5.1.1 Global Specialty Amino Acids Market Overview by Sub-Type 103

5.2 Global Amino Acids Market Overview by End-use Application 107

5.2.1 Global Amino Acids Application Market Overview by Product Type..... 111

5.2.1.1 Animal Feed 111

5.2.1.2 Food & Beverages 115

5.2.1.3 Pharma & Healthcare..... 119

5.2.1.4 Nutraceuticals 127

5.2.1.5 Cosmetics & Personal Care 135

5.2.1.6 Other Applications 143

PART B: REGIONAL MARKET PERSPECTIVE ... 147

Global Amino Acids Market Overview by Geographic Region..... 147

REGIONAL MARKET OVERVIEW 151

6. NORTH AMERICA 151

6.1 North American Amino Acids Market Overview by Geographic Region 152

6.2 North American Amino Acids Market Overview by Product Type 154

6.2.1 North American Specialty Amino Acids Market Overview by Sub-Type 156

6.3 North American Amino Acids Market Overview by End-use Application..... 158

6.4 Major Market Players 160

Ajinomoto Animal Nutrition North America, Inc. (US) .. 160

Ajinomoto Health & Nutrition North America, Inc. (US) 160

Archer Daniels Midland Company (United States)..... 161

Biokyowa Inc. (United States)..... 162

Balchem Corporation (United States)..... 162

Chattem Chemicals, Inc. (United States)..... 163

Cj Bio America (United States)..... 163

Evonik Corporation (United States) 164

Geo Specialty Chemicals, Inc. (United States)..... 164

Kemin Industries, Inc. (United States)..... 165

Milk Specialties Global (United States)..... 165

Novus International, Inc. (United States)..... 166

Prinova Group Llc (United States)..... 167

Qualitech, Inc. (United States)..... 168

Stauber Performance Ingredients, Inc. (United States) 168

6.5 Country-wise Analysis of North American Amino Acids Market..... 169

6.5.1 The United States 169

6.5.1.1 United States Amino Acids Market Overview by Product Type..... 170

6.5.1.1.1 United States Specialty Amino Acids Market Overview by Sub-Type 172

6.5.1.2 United States Amino Acids Market Overview by End-use Application 174

6.5.2 Canada 176

6.5.2.1 Canada Amino Acids Market Overview by Product Type 177

6.5.2.1.1 Canada Specialty Amino Acids Market Overview by Sub-Type 179

6.5.2.2 Canada Amino Acids Market Overview by End-use Application 181

6.5.3 Mexico	183	7.5.6 Russia	246	Ningxia Eppen Biotech Co., Ltd (China).....	308
6.5.3.1 Mexico Amino Acids Market Overview by Product Type	184	7.5.6.1 Russia Amino Acids Market Overview by Product Type	247	Ningxia Unisplendour Tianhua Methionine Co., Ltd. (China)....	309
6.5.3.1.1 Mexico Specialty Amino Acids Market Overview by Sub-Type	186	7.5.6.1.1 Russia Specialty Amino Acids Market Overview by Sub-Type	249	Nippon Rika Co., Ltd. (Japan)	310
6.5.3.2 Mexico Amino Acids Market Overview by End-use Application	188	7.5.6.2 Russia Amino Acids Market Overview by End-use Application	251	Sekisui Medical Co., Ltd.	311
7. EUROPE	190	7.5.7 Spain	253	Shaanxi Sciphar Hi-Tech Industry Co., Ltd. (China).....	311
7.1 European Amino Acids Market Overview by Geographic Region.....	191	7.5.7.1 Spain Amino Acids Market Overview by Product Type	254	Shandong Shouguang Juneng Group Golden Corn Co., Ltd.	312
7.2 European Amino Acids Market Overview by Product Type	193	7.5.7.1.1 Spain Specialty Amino Acids Market Overview by Sub-Type	256	Shandong Zhenxing Chemical Industry Co. Ltd.	312
7.2.1 European Specialty Amino Acids Market Overview by Sub-Type	195	7.5.7.2 Spain Amino Acids Market Overview by End-use Application	258	Shantou Jiabe Biological Technology Co., Ltd.	313
7.3 European Amino Acids Market Overview by End-use Application	197	7.5.8 The United Kingdom	260	Shijiazhuang Donghua Jinlong Chemical Co., Ltd. (China) ...	314
7.4 Major Market Players	199	7.5.8.1 United Kingdom Amino Acids Market Overview by Product Type.....	261	Shijiazhuang Jirong Pharmaceutical Co., Ltd.	314
Adisseo France S.A.S (France).....	199	7.5.8.1.1 United Kingdom Specialty Amino Acids Market Overview by Sub-Type.....	263	Shijiazhuang Shixing Amino Acid Co., Ltd. (China)	315
Ajinomoto Animal Nutrition Europe (France)	200	7.5.8.2 United Kingdom Amino Acids Market Overview by End-use Application	265	Shijiazhuang Zexing Amino Acid Co., Ltd. (China)	316
Amino Gmbh (Germany)	201	7.5.9 Rest of Europe	267	Shine Star (Hubei) Biological Engineering Co., Ltd. (China)...	316
Aminosib JSC (Russia)	202	7.5.9.1 Rest of Europe Amino Acids Market Overview by Product Type.....	268	Showa Denko K.K. (Japan)	317
Bcf Life Sciences (France)	202	7.5.9.1.1 Rest of Europe Specialty Amino Acids Market Overview by Sub-Type.....	270	Sichuan Tongsheng Amino Acid Co., Ltd. (China).....	317
Donbiotech Llc (Russia)	202	7.5.9.2 Rest of Europe Amino Acids Market Overview by End-use Application	272	Star Lake Bioscience Co., Inc. Zhaoqing Guangdong (China)....	318
Evonik Industries Ag (Germany)	203	8. ASIA-PACIFIC	274	Sumitomo Chemical Company, Limited (Japan).....	319
Flamma S.P.A. (Italy)	206	8.1 Asia-Pacific Amino Acids Market Overview by Geographic Region	275	Sunrise Nutrachem Group (China)	320
Innovad NV/SA (Belgium).....	206	8.2 Asia-Pacific Amino Acids Market Overview by Product Type	277	Vedan International (Holdings) Limited (Vietnam)	320
Iris Biotech Gmbh (Germany)	207	8.2.1 Asia-Pacific Specialty Amino Acids Market Overview by Sub-Type	279	Wuhan Grand Hoyo Co., Ltd. (China).....	321
METabolic Explorer S.A. (France)	207	8.3 Asia-Pacific Amino Acids Market Overview by End-use Application	281	Wuxi Jinghai Amino Acid Co., Ltd. (China).....	322
Priorskolye Cjsc (Russia).....	208	8.4 Major Market Players	283	Yantai Hengyuan Bioengineering Co. Ltd. (China).....	322
Saratov Biotechnologies Limited Liability Company (Russia).....	208	Acerblend Ingredients Co., Ltd. (China).....	283	Yichang Sanxia Pharmaceutical Co., Ltd. (China).....	323
Volzhsky Orgsynthese, Jsc (Russia)	208	Ajinomoto Co., Inc. (Japan)	284	Yuki Gosei Kogyo Co., Ltd. (Japan)	323
Wacker Chemie Ag (Germany)	209	Aminologics Co., Ltd. (South Korea).....	287	Zhejiang Guoguang Biochemistry Co., Ltd.	323
7.5 Country-wise Analysis of European Amino Acids Market	211	Anhui Huaheng Biotechnology Co., Ltd. (China).....	287	Zhejiang NHU Co., Ltd. (China).....	324
7.5.1 France	211	Baoding Mantong Fine Chemistry Co., Ltd. (China)	288	Zhejiang Shenghua Biok Biology Co., Ltd. (China)	324
7.5.1.1 France Amino Acids Market Overview by Product Type	212	Changzhou Yabang Chemical Co., Ltd. (China)	288	8.5 Country-wise Analysis of Asia-Pacific Amino Acids Market	325
7.5.1.1.1 France Specialty Amino Acids Market Overview by Sub-Type	214	China BBKA Group Corporation	288	8.5.1 China	325
7.5.1.2 France Amino Acids Market Overview by End-use Application	216	Cj Cheiljedang Corporation (South Korea).....	289	8.5.1.1 China Amino Acids Market Overview by Product Type	326
7.5.2 Germany	218	Daesang Corporation (South Korea).....	293	8.5.1.1.1 China Specialty Amino Acids Market Overview by Sub-Type	328
7.5.2.1 Germany Amino Acids Market Overview by Product Type	219	Evonik (SEA) Pte Ltd (Singapore)	294	8.5.1.2 China Amino Acids Market Overview by End-use Application	330
7.5.2.1.1 Germany Specialty Amino Acids Market Overview by Sub-Type	221	Fufeng Group Company Limited (China)	294	8.5.2 India	332
7.5.2.2 Germany Amino Acids Market Overview by End-use Application.....	223	Fujian Maidan Biology Group Co. Ltd.	295	8.5.2.1 India Amino Acids Market Overview by Product Type	333
7.5.3 Italy	225	Fuyang Dongchen Biological Engineering Co., Ltd. (China)...	295	8.5.2.1.1 India Specialty Amino Acids Market Overview by Sub-Type	335
7.5.3.1 Italy Amino Acids Market Overview by Product Type	226	Global Bio-Chem Technology Group Company Limited (Hong Kong)	296	8.5.2.2 India Amino Acids Market Overview by End-use Application	337
7.5.3.1.1 Italy Specialty Amino Acids Market Overview by Sub-Type	228	Hebei Donghua Chemical Group	296	8.5.3 Indonesia	339
7.5.3.2 Italy Amino Acids Market Overview by End-use Application	230	Hebei Huaheng Biological Technology Co., Ltd. (China) 297	297	8.5.3.1 Indonesia Amino Acids Market Overview by Product Type	340
7.5.4 The Netherlands	232	Hebei Huayang Group Co., Ltd. (China).....	297	8.5.3.1.1 Indonesia Specialty Amino Acids Market Overview by Sub-Type	342
7.5.4.1 Netherlands Amino Acids Market Overview by Product Type	233	Heilongjiang Chengfu Food Group Co., Ltd (China)	298	8.5.3.2 Indonesia Amino Acids Market Overview by End-use Application	344
7.5.4.1.1 Netherlands Specialty Amino Acids Market Overview by Sub-Type	235	Henan Hdf Chemical Company, Ltd. (China).....	298	8.5.4 Japan	346
7.5.4.2 Netherlands Amino Acids Market Overview by End-use Application	237	Henan Julong Bio-Engineering Co., Ltd. (China)	299	8.5.4.1 Japan Amino Acids Market Overview by Product Type	347
7.5.5 Poland	239	Huanggang Wellman Biosciences Co., Ltd. (China).....	299	8.5.4.1.1 Japan Specialty Amino Acids Market Overview by Sub-Type	349
7.5.5.1 Poland Amino Acids Market Overview by Product Type	240	Hubei Provincial Bafeng Pharmaceuticals & Chemicals Share Co., Ltd. (China).....	300	8.5.4.2 Japan Amino Acids Market Overview by End-use Application	351
7.5.5.1.1 Poland Specialty Amino Acids Market Overview by Sub-Type	242	Hubei Xingfa Chemicals Group Co., Ltd. (China).....	300	8.5.5 South Korea	353
7.5.5.2 Poland Amino Acids Market Overview by End-use Application	244	Jiangsu Xinhanling Biological Engineering Co., Ltd. (China) ..	301	8.5.5.1 South Korea Amino Acids Market Overview by Product Type	354
		Jinyao Ruida (Xuchang) Biology Technology Co., Ltd. (China)...	301	8.5.5.1.1 South Korea Specialty Amino Acids Market Overview by Sub-Type	356
		Kyowa Hakko Bio Co., Ltd. (Japan)	302	8.5.5.2 South Korea Amino Acids Market Overview by End-use Application.....	358
		Linghua Group Co., Ltd.....	304	8.5.6 Rest of Asia-Pacific	360
		Meihua Holdings Group Co., Ltd. (China)	305	8.5.6.1 Rest of Asia-Pacific Amino Acids Market Overview by Product Type.....	361
		Nb Group Ltd	306	8.5.6.1.1 Rest of Asia-Pacific Specialty Amino Acids Market Overview by Sub-Type	363
		Newtrend Group (China).....	306	8.5.6.2 Rest of Asia-Pacific Amino Acids Market Overview by End-use Application	365
		Ningbo Create-Bio Engineering Co., Ltd. (China)	307		
		Ningbo Haishuo Biotechnology Co., Ltd. (China)	308		

9. SOUTH AMERICA367	9.5.1.1.1 Brazil Specialty Amino Acids Market Overview by Sub-Type 380	10. REST OF WORLD398
9.1 South America Amino Acids Market Overview by Geographic Region..... 368	9.5.1.2 Brazil Amino Acids Market Overview by End-use Application 382	10.1 Rest of World Amino Acids Market Overview by Geographic Region 399
9.2 South America Amino Acids Market Overview by Product Type 370	9.5.2 Argentina384	10.2 Rest of World Amino Acids Market Overview by Product Type 401
9.2.1 South America Specialty Amino Acids Market Overview by Sub-Type 372	9.5.2.1 Argentina Amino Acids Market Overview by Product Type 385	10.2.1 Rest of World Specialty Amino Acids Market Overview by Sub-Type 403
9.3 South America Amino Acids Market Overview by End-use Application..... 374	9.5.2.1.1 Argentina Specialty Amino Acids Market Overview by Sub-Type 387	10.3 Rest of World Amino Acids Market Overview by End-use Application..... 405
9.4 Major Market Players 376	9.5.2.2 Argentina Amino Acids Market Overview by End-use Application 389	PART C: GUIDE TO THE INDUSTRY.....407
Ajinomoto do Brazil Industria e Comercio de Alimentos Ltda (Brazil)..... 376	9.5.3 Rest of South America391	1. NORTH AMERICA 407
CJ do Brasil Ltda (Brazil)..... 376	9.5.3.1 Rest of South America Amino Acids Market Overview by Product Type..... 392	2. EUROPE..... 408
9.5 Country-wise Analysis of South American Amino Acids Market..... 377	9.5.3.1.1 Rest of South America Specialty Amino Acids Market Overview by Sub-Type..... 394	3. ASIA-PACIFIC..... 410
9.5.1 Brazil377	9.5.3.2 Rest of South America Amino Acids Market Overview by End-use Application 396	4. REST OF WORLD 416
9.5.1.1 Brazil Amino Acids Market Overview by Product Type 378		PART D: ANNEXURE417
		1. RESEARCH METHODOLOGY 417
		2. FEEDBACK 419

About Industry Experts

Industry Experts’ market research, backed by years of experience and an analytical team dedicated to providing the most optimal business solutions, has been specifically designed to provide a variety of benefits, both current and future. Our leading-edge publications make the life easy for corporate strategists, investors, analysts and researchers, startups, consultants, financial and banking executives, academicians and many more. The company also provides customized research reports to cater the needs of the industry.

Business intelligence provides the critical link between comprehending prevailing market conditions and devising strategies to maximize parameters, such as revenues, profits and return on investment in order to gain market share. The significance of market research can be largely understood through the range of factors that impact businesses. These can comprise market size (current and projected), geographic market reach and demand and supply scenario, to name a few. Our ongoing quest to collect up to date and accurate information by conducting online surveys, personal interviews, taking the opinions of senior level executives will enable us to serve our clients better in every possible aspect.

More about Industry Experts



Industry Experts, Inc.
14726 Ramona Ave, Suite S2
Chino, CA 91710
Greater Los Angeles
United States
Phone: +1-320-iXPERTS (497-3787)
Email: info@industry-experts.com

India Office
1-7-19/C, Street No. 8, Habsiguda
Hyderabad – 500007
India
Phone: +91-40-4018-1314
Fax: +91-40-2715-7746
Website: <http://industry-experts.com>