

Commercial Amino Acids

<https://marketpublishers.com/r/C94B0E17836EN.html>

Date: June 2023

Pages: 170

Price: US\$ 5,500.00 (Single User License)

ID: C94B0E17836EN

Abstracts

Report Scope:

This report outlines the properties of the 20 commercial essential amino acids that are delineated in the genetic code, current and future uses, technology, and their manufacturers. It focuses on three commercial amino acid markets: animal feed supplements; flavoring and nutritional additives for human food; and specialty uses, including medical, therapeutic, research and industrial applications. Feed and food applications offer steady growth opportunities to their manufacturers, and their use will continue to grow as a result of both population increases and an overall increase in the global standard of living.

Report Includes:

55 data tables and 44 additional tables

An up-to-date overview and analysis of the global market for commercial amino acids

Analyses of the global market trends, with historic market revenue data (sales figures) from 2020 to 2022, estimates for 2023, and projections of compound annual growth rates (CAGRs) through 2028

Highlights of the current and upcoming potential for three commercial amino acid markets, growth driving factors, and areas of focus to forecast this market into various segments and subsegments

Estimation of the actual market size and revenue forecast for global amino acid market, and its corresponding market share analysis based on the type of

product (amino acid), application, and region

Updated information on key market drivers and opportunities, industry shifts and regulations, and other demographic factors that will influence the market demand in the coming years (2023-2028)

A look at the major growth strategies adopted by leading players operating in the commercial amino acids markets, recent developments, strategic alliances, and competitive benchmarking

Patent review and new developments, R&D activities, recent industry structure, and current state of the market for bio-based commercial amino acids

Descriptive company profiles of the leading global players in the market, including Ajinomoto, Balchem, CJ Corp., Fufeng Group Ltd. and Zhejiang NHU Co. Ltd.

Contents

CHAPTER 1 INTRODUCTION

Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
What's New in This Update?
Intended Audience
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
BCC Custom Research
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Commercial Interests
Feed Fortification
Food Flavoring Agents
Specialty Uses
Dietary Needs
Biologic Value of Amino Acid Mixtures
Recommended Daily Allowance
Amino Acid Metabolism
Properties
Chemical Structure
Isolation and Analysis
Microbiological Assay
Chromatographic Separation
Production Technology
Extraction
Fermentation
Microbiological Processes
Chemical D Synthesis
Enzymatic Conversion

Market Dynamics
Market Drivers
Market Restraints
Market Opportunities
Market Regulations
Federal Drug Administration
U.S. Pharmacopoeia
Dietary Supplement and Non-Prescription Drug Consumer Protection Act

CHAPTER 4 RECENT TRENDS AND TECHNOLOGY ADVANCES

Hydroxy Amino Acids
Biotechnology Methods to Manufacture Amino Acids
Dry Form of Lysine is Being Phase Out

CHAPTER 5 IMPACT OF COVID-19

Impact of COVID-19 on Amino Acids Supply Chain
National Lockdowns
Reduced Labor Availability
Increased Waiting Time
Customer Preferences
The Rise of Social Media During the Pandemic
Impact on Social Events
Rumors Affected the Consumption of Meat
Food Security

CHAPTER 6 AMINO ACID MARKET BY PRODUCTS

Major Manufacturers
Methionine
Methionine Applications and Consumption Patterns
Methionine Product Types and Comparative Nutritional Values
Global Methionine Market
Methionine Capacity and Manufacturers
Price of Methionine
Lysine
Global Lysine Market
Lysine Capacity and Manufacturers

Pricing

Threonine

Threonine Applications and Consumption Patterns

Global Threonine Market

Threonine Capacity and Manufacturers

Threonine Pricing

Tryptophan

Tryptophan Applications and Consumption Patterns

Tryptophan Regulations

Tryptophan Health Applications

Tryptophan as a Fat Fighter

Global Tryptophan Market

Tryptophan Capacity

Pricing

Phenylalanine

Phenylalanine Applications and Consumption Patterns

Pharmaceutical Uses of Phenylalanine

Global Phenylalanine Market

Phenylalanine Capacity and Manufacturers

Phenylalanine Pricing

Glutamic Acid

Glutamic Acid Production Technology

Glutamic Acid Applications and Consumption Patterns

MSG Regulation

Global Glutamic Acid Market

Glutamic Acid Capacity and Manufacturers

Pricing

Cysteine

Cysteine/Cystine Applications and Consumption Patterns

Cysteine and Nutraceuticals

Cysteine/Cystine Production Technology

Global Cysteine/Cystine Market

Cysteine/Cystine Capacity and Manufacturers

Cysteine Pricing

Aspartic Acid

Aspartic Acid Applications and Consumption Patterns

Aspartic Acid Copolymers

Aspartic Acid Production Technology

Global Aspartic Acid Market

Aspartic Acid Capacity and Manufacturers
Aspartic Acid Pricing
Glycine
Glycine Applications
Global Glycine Market
Glycine Capacity and Manufacturers
Glycine Pricing
Alanine
Alanine Production Technology
Alanine Applications and Consumption Patterns
Global Alanine Market
Alanine Capacity and Manufacturers
Alanine Pricing
Arginine
Applications
Global Arginine Market
Arginine Capacity and Manufacturers
Arginine Pricing
Proline
Proline Technology
Global Proline Market
Proline Capacity and Manufacturers
Proline Pricing
Leucine
Leucine Applications and Consumption Patterns
Leucine Production Technology
Global Leucine Market
Leucine Capacity and Manufacturers
Leucine Pricing
Valine
Valine Applications and Consumption Patterns
Valine Production Technology
Global Valine Market
Valine Capacity and Manufacturers
Valine Pricing
Tyrosine
Tyrosine Applications and Consumption Patterns
Tyrosine Production Technology
Global Tyrosine Market

Tyrosine Capacity and Manufacturers

Tyrosine Pricing

Other Amino Acids

Isoleucine

Serine

Asparagine

Glutamine

Histidine

CHAPTER 7 AMINO ACIDS MARKET BY REGION

North America

United States

Canada

Mexico

Europe

Germany

Spain

France

Rest of Europe

Asia-Pacific

China

China and Feed

Japan

Rest of Asia-Pacific

LATAM

Brazil

Argentina

Rest of LATAM

Rest of the World

CHAPTER 8 AMINO ACIDS MARKET BY APPLICATION

Animal Feed Applications

Animal Feed Supplements

Phase Feeding

Animal Feed Regulations

International Regulations

Typical Animal Feed Product

Complete Protein Sources
New Amino Acid-based Feed Products
Poultry Feeds
Swine Feeds
Amino Acid Research and Animal Nutrition
Technical Factors
Animal By-Products
Dairy and Beef Cattle Feeds
Sheep Feeds
Aquaculture
Pet Foods
Food Flavoring and Food Additive Applications
Global Market for Food Flavorings
Specialty Applications
Pharmaceutical Products
Chemical Intermediates
Cosmetics and Amino Acids
Photography and Amino Acids
Detergent and Amino Acids

CHAPTER 9 COMPETITIVE LANDSCAPE

Market Share Analysis

CHAPTER 10 COMPANY PROFILES

AJINOMOTO CO. INC.
ADM
BALCHEM CORP.
CHINA NATIONAL BLUESTAR (GROUP) CO. LTD.
CJ CORP.
DAESANG CORP.
EVONIK DEGUSSA CORP.
FUFENG GROUP LTD.
GLOBAL BIOCHEM TECHNOLOGY GROUP
KEMIN INDUSTRIES INC.
KYOWA HAKKO BIO
NOVUS INTERNATIONAL INC.
SEKISUI MEDICAL CO. LTD.

SHOUGUANG JUNENG GROUP GOLDEN CORN CO. LTD.

SHOWA DENKO K.K.

SICHUAN TONGSHENG AMINO ACID CO.

SUMITOMO CHEMICAL CO. LTD.

VEDAN INTERNATIONAL LTD.

ZHEJIANG NHU CO. LTD.

List Of Tables

LIST OF TABLES

Summary Table: Global Amino Acids Market, by Application, Through 2028

Table 1: Commercial Amino Acids, by Use

Table 2: Protein Amino Acids

Table 3: Major Commercial Applications

Table 4: Essential Amino Acids

Table 5: Protein Values of Selected Foods

Table 6: Chemical Structures of Amino Acids

Table 7: Amino Acids, by Production Method

Table 8: Amino Acid Production, by Fermentation

Table 9: Application of Selected Amino Acids

Table 10: Global Production of Amino Acids, 2000-2019

Table 11: USP-Verified Amino Acid Products

Table 12: Initiatives Taken by Various Governments to Combat the Rise in Feed Prices

Table 13: Leading Global Producers of Amino Acids by Type, 2022

Table 14: Global Amino Acids Market, by Type, Through 2028

Table 15: Global Methionine Market, Through 2028

Table 16: Leading Methionine Manufacturers, 2022

Table 17: Global Methionine Production Capacity, by Manufacturer, 2022

Table 18: Global Lysine Market, Through 2028

Table 19: Global Lysine Production Capacity Share, by Manufacturer, 2022

Table 20: Global Threonine Market, Through 2028

Table 21: Leading Threonine Producers, 2022

Table 22: Threonine Production Capacity Share, by Manufacturer, 2022

Table 23: Global Tryptophan Market, Through 2022

Table 24: Leading Tryptophan Producers, 2022

Table 25: Global Phenylalanine Market, Through 2028

Table 26: Leading Phenylalanine Producers, 2022

Table 27: Global Glutamic Acid Market, Through 2028

Table 28: Leading Glutamic Acid Manufacturers, 2022

Table 29: Global Cysteine Market, Through 2028

Table 30: Leading Cysteine Producers, 2022

Table 31: Global Aspartic Acid Market, Through 2028

Table 32: Leading Aspartic Acid Manufacturers, 2022

Table 33: Global Glycine Market, Through 2028

Table 34: Leading Glycine Manufacturers, 2022

Table 35: Global Alanine Market, Through 2028
Table 36: Leading Alanine Manufacturers, 2022
Table 37: Global Arginine Market, Through 2028
Table 38: Leading Arginine Manufacturers, 2022
Table 39: Global Proline Market, Through 2028
Table 40: Leading Proline Manufacturers, 2022
Table 41: Global Leucine Market, Through 2028
Table 42: Leading Leucine Manufacturers, 2022
Table 43: Leucine Prices in the U.S., by Type, 2022
Table 44: Global Valine Market, Through 2028
Table 45: Leading Valine Producers, 2022
Table 46: Global Tyrosine Market, Through 2028
Table 47: Leading Tyrosine Manufacturers, 2022
Table 48: Global Other Amino Acids Market, Through 2028
Table 49: Leading Isoleucine Manufacturers, 2022
Table 50: Leading Serine Manufacturers, 2022
Table 51: Leading Asparagine Manufacturers, 2022
Table 52: Leading Glutamine Manufacturers, 2022
Table 53: Leading Histidine Manufacturers, 2022
Table 54: Global Amino Acids Market, by Region, Through 2028
Table 55: North American Amino Acids Market, by Application, Through 2028
Table 56: North American Amino Acids Market, by Product Type, Through 2028
Table 57: North American Amino Acids Market, by Country, Through 2028
Table 58: European Amino Acids Market, by Application, Through 2028
Table 59: European Amino Acids Market, by Product Type, Through 2028
Table 60: European Amino Acids Market, by Country, Through 2028
Table 61: Asia-Pacific Amino Acids Market, by Application, Through 2028
Table 62: Asia-Pacific Amino Acids Market, by Product Type, Through 2028
Table 63: Asia-Pacific Amino Acids Market, by Country, Through 2028
Table 64: LATAM Amino Acids Market, by Application, Through 2028
Table 65: LATAM Amino Acids Market, by Product Type, Through 2028
Table 66: LATAM Amino Acids Market, by Country, Through 2028
Table 67: Rest of the World Amino Acids Market, by Application, Through 2028
Table 68: Rest of the World Amino Acids Market, by Product Type, Through 2028
Table 69: Global Feed Applications of the Amino Acids Market, by Product Type, Through 2028
Table 70: Amino Acid Feed Compositions
Table 71: Global Food Flavoring Applications of the Amino Acids Market, by Type, Through 2028

Table 72: Amino Acids for Specialty Uses, 2022

Table 73: Global Specialty Applications of the Amino Acids Market, by Type, Through 2028

Table 74: Recent Developments in the Amino Acids Industry, 2020-2023

Table 75: Ajinomoto: Revenue, 2020-2022

Table 76: Ajinomoto: Recent Developments, 2020-2023

Table 77: ADM: Revenue, 2020-2022

Table 78: ADM: Recent Development

Table 79: Balchem Corp.: Revenue, 2020-2022

Table 80: CJ Corp.: Revenue, 2019-2021

Table 81: CJ Corp.: Amino Acid Products

Table 82: Daesang Corp.: Revenue, 2020-2022

Table 83: Daesang Corp.: Amino Acid Products

Table 84: Evonik Degussa Corp.: Revenue, 2020-2022

Table 85: Evonik Degussa Corp.: Revenue, Nutrition and Care Segment, 2020-2022

Table 86: Evonik Degussa Corp.: Amino Acid Products

Table 87: Evonik Degussa Corp.: Recent Developments, 2022 and 2023

Table 88: Fufeng Group Ltd.: Revenue, 2020-2022

Table 89: Fufeng Group Ltd.: Amino Acid Products

Table 90: Global Biochem Technology Group: Revenue, 2020-2022

Table 91: Kyowa Hakka Bio: Amino Acid Products

Table 92: Sekisui Medical: Amino Acid Products

Table 93: Shouguang Juneng Group Golden Corn Co. Ltd.: Revenue, 2020-2022

Table 94: Sichuan Tongseng Amino Acid Co.: Amino Acid Products

Table 95: Sumitomo Chemical Co. Ltd.: Revenue, 2020-2022

Table 96: Sumitomo Chemical Co.: Amino Acid Products

Table 97: Vedan International: Amino Acid Products

Table 98: Zhejiang NHU Co. Ltd.: Revenue, 2019-2021

List Of Figures

LIST OF FIGURES

Summary Figure: Global Amino Acid Market, by Region, 2020-2028

Figure 1: Concept of Nutraceuticals

Figure 2: Various Applications of Amino Acids Across Industries

Figure 3: Estimated Global Population, 1950-2050

Figure 4: Side Effects of Amino Acids

Figure 5: Various Forms of Dietary Supplements

Figure 6: Annual Per-Capita Meat Consumption in the Middle East, South Asia and South America, 1990 vs. 2015

Figure 7: Difference between Chemical and Biotechnology Methods of Amino Acid Production

Figure 8: Impact of COVID on Amino Acids and Food Supply Chain

Figure 9: Positive and Negative Impacts of COVID-19 on the Amino Acids Industry

Figure 10: Global Market Shares of Lysine Consumption, by Feed Type, 2022

Figure 11: Global Market Shares of Lysine Production, by Leading Manufacturers, 2022

Figure 12: Canadian Market Shares of Animal Feed, by Types of Feed, 2022

Figure 13: Challenges Faced by the Amino Acids Industry in China

Figure 14: Global Amino Acids Market, by Application, 2020-2028

Figure 15: Global Market Shares of Amino Acids Manufacturers, 2022

Figure 16: Ajinomoto: Revenue Share, by Segment, 2022

Figure 17: ADM: Revenue Share, by Country/Region, 2022

Figure 18: ADM: Revenue Share, by Segment, 2022

Figure 19: ADM: Nutrition Segment Revenue Share, by Type, 2022

Figure 20: Balchem: Revenue Share, by Segment, 2022

Figure 21: CJ Corp.: Revenue Share, by Segment, 2021

Figure 22: CJ Corp.: Revenue Share, by Country, 2021

Figure 23: Evonik Degussa Corp.: Revenue Share, by Segment, 2022

Figure 24: Evonik Degussa Corp.: Revenue Share, by Region, 2022

Figure 25: Fufeng Group Ltd.: Revenue Share, by Segment, 2022

Figure 26: Shouguang Juneng Group Golden Corn Co. Ltd.: Revenue Share, by Segment, 2022

Figure 27: Sumitomo Chemical Co. Ltd.: Revenue Share, by Segment, 2022

Figure 28: Zhejiang NHU Co. Ltd.: Revenue Share, by Segment, 2022

Figure 29: Zhejiang NHU Co. Ltd.: Revenue Share, by Pharmaceutical Segment, 2022

Figure 30: Zhejiang NHU Co. Ltd.: Revenue Share, by Region, 2022

I would like to order

Product name: Commercial Amino Acids

Product link: <https://marketpublishers.com/r/C94B0E17836EN.html>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C94B0E17836EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970