

Global D-Amino Acids Market Research Report 201

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Abstracts

This report studies D-Amino Acids in Global market, especially in North America, Europe, China, Japan, Southeast Asia and India, focuses on top manufacturers in global market, with capacity, production, price, revenue and market share for each manufacturer, covering

Cargill Inc.

PHW Group

BASF

Sekisui Medical

Shijiazhuang Haitian Amino Acid

Zhangjiagang Huachang Pharmaceutical

Kyowa Hakko Kirin

Evonik

Sichuan Tongsheng Amino Acid

Ajinomoto

Shri Hari Chemicals

Chaitanya Chemicals

A.B. Enterprises

United Biotech Ltd.

National Analytical Corporation

Market Segment by Regions, this report splits Global into several key Regions, with production, consumption, revenue, market share and growth rate of D-Amino Acids in these regions, from 2011 to 2021 (forecast), like

North America

China

Europe

Japan

Southeast Asia

India

RoW

Split by Component, with production, revenue, price, market share and growth rate of each type, can be divided into

Essential for Humans

Isoleucine

Leucine

Lysine

Methionie

Phenylalanine

Threonine

Tryptophan

Valine

Semi-essential for Humans

Arginine

Histidine

Non-essential for Humans

Alanine

Asparagine

Aspartic Acid

Cysteine

Glutamine

Glutamic Acid

Glycine

Proline

Serine

Tyrosine

Others

Split by applications, this report focuses on consumption, market share and growth rate of D-Amino Acids in each application, can be divided into

Swine

Poultry

Cattle

Aquaculture

Fishery

Others

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1 D-Amino Acids Market Overview

1.1 Product Overview and Scope of D-Amino Acids

Amino acids are chiral compounds that are present in living organisms as free compounds or as polymers such as peptides or proteins. The 20 L-Amino acids present in proteins and peptides are defined as proteinogenic amino acid. About 500 amino acids are known and have been classified in many ways base on their chemical/physical properties.

All amino acids (AA) but glycine exist in either of the two enantiomers, which are mirror images of each other (the so called D- and L-enantiomers).

Although present in a less concentration in mammals, free D-amino acids play central roles: as an example D-serine is one of the main neuromodulators of the glutamatergic neurotransmission and D-aspartate is fundamental for brain development in fetus.

The major sources of D-amino acids in Nature are bacteria. In these microorganisms, D-amino acids are part of peptidoglycan (a major component of the bacterial cell wall). In addition, also the compounds teichoic acids and poly-glutamate contain D-amino acids.

In peptidoglycan, D-alanine or D-glutamate contribute to antibiotic resistance in some bacteria. Many diverse bacteria synthesize D-amino acids such as, D-methionine and D-leucine.

D-amino acids are also present in many venoms from platypus, funnel web spider, and cone snail produced by the action of isomerases.

Figure Picture of D-Amino Acids

Source: QYR Chemical Product Research Center, Dec. 2016

1.2 D-Amino Acids Segment by Types

1.2.1 Global Production Market Share of D-Amino Acids by Types in 2015

Figure Global Production Market Share of D-Amino Acids by Types in 2015

Source: QYR Chemical Product Research Center, Dec. 2016

Table Classification of D-Amino Acids

Types Feature Description

1

2

3

Source: QYR Chemical Product Research Center, Dec. 2016

1.2.2 Essential for Humans

Figure Product Picture of Essential for Humans

Source: QYR Chemical Product Research Center, Dec. 2016

Table Major Manufacturers of Essential for Humans

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

Source: Above Companies; QYR Chemical Product Research Center, Dec. 2016

1.2.2.1 Isoleucine

1.2.2.2 Leucine

1.2.2.3 Lysine

1.2.2.4 Methionie

1.2.2.5 Phenylalanie

1.2.2.6 Threonie

1.2.2.7 Tryptophan

1.2.2.8 Valine

1.2.3 Semi-essential for Humans

Figure Product Picture of Semi-essential for Humans

Source: QYR Chemical Product Research Center, Dec. 2016

Table Major Manufacturers of Semi-essential for Humans

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

Source: Above Companies; QYR Chemical Product Research Center, Dec. 2016

1.2.3.1 Arginine

1.2.3.2 Histidine

1.2.4 Non-essential for Humans

Figure Product Picture of Non-essential for Humans

Source: QYR Chemical Product Research Center, Dec. 2016

Table Major Manufacturers of Non-essential for Humans

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

Source: Above Companies; QYR Chemical Product Research Center, Dec. 2016

1.2.4.1 Alanine

1.2.4.2 Asparagine

1.2.4.3 Aspartic Acid

1.2.4.4 Cysteine

1.2.4.5 Glutamine

1.2.4.6 Glutamic Acid

1.2.4.7 Glycine

1.2.4.8 Proline

1.2.4.9 Serine

1.2.4.10 Tyrosine

1.2.5 Others

Figure Product Picture of Others

Source: QYR Chemical Product Research Center, Dec. 2016

Table Major Manufacturers of Others

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

Source: Above Companies; QYR Chemical Product Research Center, Dec. 2016

1.3 D-Amino Acids Segment by Applications

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Table D-Amino Acids Consumption Market Share by Applications in 2015

Source: QYR Chemical Product Research Center, Dec. 2016

Table Applications of D-Amino Acids

Applications Feature Description

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2

3

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.2 Swine

Swine

Figure Swine Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.3 Poultry

Poultry

Figure Poultry Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.4 Cattle

Cattle

Figure Cattle Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.5 Aquaculture

Aquaculture

Figure Aquaculture Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.6 Fishery

Fishery

Figure Fishery Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.7 Others

Others

Figure Others Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.4 D-Amino Acids Market by Regions

1.4.1 North America Status and Prospect (2011-2021)

Figure North America D-Amino Acids Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Chemical Product Research Center, Dec. 2016

1.4.2 China Status and Prospect (2011-2021)

Figure China D-Amino Acids Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Chemical Product Research Center, Dec. 2016

1.4.3 Europe Status and Prospect (2011-2021)

Figure Europe D-Amino Acids Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Chemical Product Research Center, Dec. 2016

1.4.4 Japan Status and Prospect (2011-2021)

Figure Japan D-Amino Acids Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Chemical Product Research Center, Dec. 2016

1.4.5 Southeast Asia Status and Prospect (2011-2021)

Figure Southeast Asia D-Amino Acids Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Chemical Product Research Center, Dec. 2016

1.4.6 India Status and Prospect (2011-2021)

Figure India D-Amino Acids Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Chemical Product Research Center, Dec. 2016

1.5 Global Market Size (Value) of D-Amino Acids (2011-2021)

Figure Global D-Amino Acids Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Chemical Product Research Center, Dec. 2016

2 Global D-Amino Acids Market Competition by Manufacturers

2.1 Global D-Amino Acids Capacity, Production and Share by Manufacturers (2015 and 2016)

Table Global D-Amino Acids Capacity of Key Manufacturers (2015 and 2016)

Capacity 2015 2016

Cargill Inc.

PHW Group

BASF

Sekisui Medical

Shijiazhuang Haitian Amino Acid

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Table Global D-Amino Acids Capacity Market Share of Key Manufacturers (2015 and 2016)

Capacity 2015 2016

Cargill Inc.

PHW Group

BASF

Sekisui Medical

Shijiazhuang Haitian Amino Acid

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Figure Global D-Amino Acids Capacity of Key Manufacturers in 2015

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Figure Global D-Amino Acids Capacity of Key Manufacturers in 2016

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016
Table Global D-Amino Acids Production of Key Manufacturers (2015 and 2016)
Production 2015 2016

Cargill Inc.

PHW Group

BASF

Sekisui Medical

Shijiazhuang Haitian Amino Acid

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016
Table Global D-Amino Acids Production Share by Manufacturers (2015 and 2016)
Production Share 2015 2016

Cargill Inc.

PHW Group

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016
Figure 2015 D-Amino Acids Production Share by Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016
Figure 2016 D-Amino Acids Production Share by Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016
2.2 Global D-Amino Acids Revenue and Share by Manufacturers (2015 and 2016)

Table Global D-Amino Acids Revenue (Million USD) by Manufacturers (2015 and 2016)
Revenue 2015 2016

Cargill Inc.

PHW Group

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016
Table Global D-Amino Acids Revenue Share by Manufacturers (2015 and 2016)
Revenue Share 2015 2016

Cargill Inc.

PHW Group

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016
Table 2015 Global D-Amino Acids Revenue Share by Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016
Table 2016 Global D-Amino Acids Revenue Share by Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016
2.3 Global D-Amino Acids Average Price by Manufacturers (2015 and 2016)

Table Global Market D-Amino Acids Average Price of Key Manufacturers (2015 and

2016)

2015 2016

Cargill Inc.

PHW Group

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Figure Global Market D-Amino Acids Average Price of Key Manufacturers in 2015

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

2.4 Manufacturers D-Amino Acids Manufacturing Base Distribution, Sales Area, Product Types

Table Manufacturers D-Amino Acids Manufacturing Base Distribution and Sales Area
Manufacturing Base Distribution Sales Area

Cargill Inc.

PHW Group

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Table Manufacturers D-Amino Acids Product Types

Product Types

Cargill Inc.

PHW Group

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

2.5 D-Amino Acids Market Competitive Situation and Trends

2.5.1 D-Amino Acids Market Concentration Rate

2.5.2 D-Amino Acids Market Share of Top 3 and Top 5 Manufacturers

Figure D-Amino Acids Market Share of Top 3 Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Figure D-Amino Acids Market Share of Top 5 Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

2.5.3 Mergers & Acquisitions, Expansion

3 Global D-Amino Acids Capacity, Production, Revenue (Value) by Regions
(2011-2016)

3.1 Global D-Amino Acids Capacity and Market Share by Regions (2011-2016)

Table Global D-Amino Acids Capacity by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Southeast Asia

India

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Global D-Amino Acids Capacity Market Share by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Southeast Asia

India

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Global D-Amino Acids Capacity Market Share by Regions (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Global D-Amino Acids Capacity Market Share by Regions

Source: QYR Chemical Product Research Center, Dec. 2016

3.2 Global D-Amino Acids Production and Market Share by Regions (2011-2016)

Table Global D-Amino Acids Production by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Southeast Asia

India

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Global D-Amino Acids Production and Market Share by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Southeast Asia

India

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Global D-Amino Acids Production Market Share by Regions (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Global D-Amino Acids Production Market Share by Regions

Source: QYR Chemical Product Research Center, Dec. 2016

3.3 Global D-Amino Acids Revenue (Value) and Market Share by Regions (2011-2016)

Table Global D-Amino Acids Revenue by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Southeast Asia

India

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table Global D-Amino Acids Revenue Market Share by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Southeast Asia

India

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table 2015 Global D-Amino Acids Revenue Market Share by Regions

Source: QYR Chemical Product Research Center, Dec. 2016

3.4 Global D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Global D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.5 North America D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table North America D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.6 Europe D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Europe D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.7 China D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table China D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.8 Japan D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Japan D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.9 Southeast Asia D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Southeast Asia D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.10 India D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table India D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin
(2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.11 D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin
(2011-2016)

Table D-Amino Acids Capacity, Production, Revenue, Price and Gross Margin
(2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

4 Global D-Amino Acids Supply (Production), Consumption, Export, Import by Regions
(2011-2016)

4.1 Global D-Amino Acids Consumption by Regions (2011-2016)

Table Global D-Amino Acids Consumption Market by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Southeast Asia

India

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table Global D-Amino Acids Consumption Market Share by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Southeast Asia

India

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Global D-Amino Acids Consumption Market Share by Regions (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Global D-Amino Acids Consumption Market Share by Regions

Source: QYR Chemical Product Research Center, Dec. 2016

4.2 North America D-Amino Acids Production, Consumption, Export, Import by Regions (2011-2016)

Table North America D-Amino Acids Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.3 Europe D-Amino Acids Production, Consumption, Export, Import by Regions (2011-2016)

Table Europe D-Amino Acids Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.4 China D-Amino Acids Production, Consumption, Export, Import by Regions (2011-2016)

Table China D-Amino Acids Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.5 Japan D-Amino Acids Production, Consumption, Export, Import by Regions
(2011-2016)

Table Japan D-Amino Acids Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.6 Southeast Asia D-Amino Acids Production, Consumption, Export, Import by Regions
(2011-2016)

Table Southeast Asia D-Amino Acids Production, Consumption, Import & Export
(2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.7 India D-Amino Acids Production, Consumption, Export, Import by Regions
(2011-2016)

Table India D-Amino Acids Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.8 D-Amino Acids Production, Consumption, Export, Import by Regions (2011-2016)

Table D-Amino Acids Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

5 Global D-Amino Acids Production, Revenue (Value), Price Trend by Types

5.1 Global D-Amino Acids Production and Market Share by Types (2011-2016)

Table Global D-Amino Acids Production by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Essential for Humans

Semi-essential for Humans

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table Global D-Amino Acids Production Share by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Essential for Humans

Semi-essential for Humans

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Production Market Share of D-Amino Acids by Types (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Production Market Share of D-Amino Acids by Types

Source: QYR Chemical Product Research Center, Dec. 2016

5.2 Global D-Amino Acids Revenue and Market Share by Types (2011-2016)

Table Global D-Amino Acids Revenue by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Essential for Humans

Semi-essential for Humans

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table Global D-Amino Acids Revenue Share by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Essential for Humans

Semi-essential for Humans

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Production Revenue Share of D-Amino Acids by Types (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Revenue Market Share of D-Amino Acids by Types

Source: QYR Chemical Product Research Center, Dec. 2016

5.3 Global D-Amino Acids Price by Type (2011-2016)

Table Global D-Amino Acids Price by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Essential for Humans

Semi-essential for Humans

Total

Source: QYR Chemical Product Research Center, Dec. 2016

5.4 Global D-Amino Acids Production Growth by Type (2011-2016)

Figure Global D-Amino Acids Production Growth by Type (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

6 Global D-Amino Acids Market Analysis by Applications

6.1 Global D-Amino Acids Consumption and Market Share by Applications (2011-2016)

Table Global D-Amino Acids Consumption by Applications (2011-2016)

2011 2012 2013 2014 2015 2016

Medical

Poultry

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table Global D-Amino Acids Consumption Market Sh

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