

Silage Inoculants & Enzymes Market by Type (Homofermentative & Heterofermentative), Species (Lactobacillus, Pediococcus & Enterococcus), Enzymes (Fibre-digesting & Starch-digesting), Croptype, & by Geography - Global Trends and Forecast to 2020

https://marketpublishers.com/r/SF776CD8854EN.html

Date: July 2015

Pages: 185

Price: US\$ 5,650.00 (Single User License)

ID: SF776CD8854EN

Abstracts

Silage inoculants are a type of additives which contain anaerobic lactic acid bacteria (LAB) used to increase the fermentation rate in silage. The inoculants help in preserving more nutrients and dry matter, thereby improving animal performance. Some inoculants have also been designed to specifically improve the aerobic stability. The silage inoculants are added at a high rate to compete against the harmful organisms and control the ensiling process.

Key industry players invest extensively in R&D initiatives to expand their product portfolios. Continuous investments in new product development, product modifications, expansions, and acquisitions have expanded the scope of the industry. The addition of inoculants and enzymes in silage add various health benefits to it, which helps in increasing the productivity of the animal feed. The inclusion of inoculants and enzymes help in lowering the pH value, which is helpful in keeping the livestock digestive system healthy, especially with regard to cattle.

North America holds the largest share of the global silage inoculants & enzymes market. In the forthcoming years, the market is projected to grow fastest in North American region making it the fastest revenue-generating pocket.

Silage demand has increased significantly in most parts of the world. The increasing



feed grains and compound feed prices is one of the major reasons for the growth of the silage market, which in turn has fueled the silage and inoculants and enzymes demand.

The global market is marked with intense competition due to the presence of a large number of big and small firms. New product developments, partnerships and expansions are the key strategies adopted by market players to ensure growth in the market. The market is dominated by players such as ADDCON GROUP GmbH (Germany), E. I. du Pont de Nemours and Company (U.S.), Archer Daniels Midland Company (U.S.), Kemin Industries (U.S.), and Chr. Hansen A/S (Denmark). In this report, the global silage inoculants & enzymes market is segmented into type, species, enzyme, crop-type, and geography. The global silage inoculants & enzymes market was valued at \$ 387.08 million in 2014 and is projected to grow at a CAGR of 4.0% from 2015 to 2020.



Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY CONSIDERED FOR THE STUDY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key Data From Secondary Sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key Data From Primary Sources
 - 2.1.2.2 Key Industry Insights
 - 2.1.2.3 Breakdown of Primary Interviews
- 2.2 FACTOR ANALYSIS
 - 2.2.1 INTRODUCTION
 - 2.2.2 DEMAND-SIDE ANALYSIS
 - 2.2.2.1 Ruminants Population & Increasing Demand for Milk & Meat Products
 - 2.2.3 SUPPLY-SIDE ANALYSIS
 - 2.2.3.1 Parent Market Analysis: Animal Feed Market Growth
 - 2.2.3.2 Rising Cost of Natural Feed Products
- 2.3 MARKET SIZE ESTIMATION
 - 2.3.1 BOTTOM-UP APPROACH
 - 2.3.2 TOP-DOWN APPROACH
- 2.4 MARKET BREAKDOWN & DATA TRIANGULATION
- 2.5 RESEARCH ASSUMPTIONS & LIMITATIONS
 - 2.5.1 ASSUMPTIONS
 - 2.5.2 LIMITATIONS

3 EXECUTIVE SUMMARY



4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES IN SILAGE INOCULANTS AND ENZYMES MARKET
- 4.2 SILAGE INOCULANTS AND ENZYMES MARKET, BY CROP TYPE
- 4.3 SILAGE ENZYMES MARKET, BY TYPE
- 4.4 NORTH AMERICA SILAGE INOCULANTS & ENZYMES MARKET
- 4.5 SILAGE INOCULANTS AND ENZYMES MARKET, BY SPECIES
- 4.6 SILAGE INOCULANTS & ENZYMES: MARKET SHARES OF TOP COUNTRIES 2014
- 4.7 LIFECYCLE ANALYSIS: NORTH AMERICA & EUROPE NORTH AMERICA ARE BEST MARKETS FOR INVESTMENTS

5 MARKET OVERVIEW

- 5.1 INTRODUCTION
- 5.2 EVOLUTION
- 5.3 MARKET SEGMENTATION
 - 5.3.1 BY INOCULANTS TYPE
 - 5.3.2 BY SPECIES
 - 5.3.3 BY ENZYMES TYPE
 - 5.3.4 BY CROP TYPE
- **5.4 MARKET DYNAMICS**
 - 5.4.1 DRIVERS
 - 5.4.1.1 Increasing Feed Grain and Compound Feed Prices
 - 5.4.1.2 Rising Livestock Number and Decreasing Pasture Land Area
 - 5.4.1.3 Silage Increases Livestock Production
 - 5.4.1.4 Increasing Demand for Animal Products
 - 5.4.1.5 Growing Dairy Industry
 - 5.4.1.6 Increasing Meat Consumption

6 INDUSTRY TRENDS

- **6.1 INTRODUCTION**
- 6.2 VALUE CHAIN ANALYSIS
- 6.3 SUPPLY CHAIN ANALYSIS
 - 6.3.1 PROMINENT COMPANIES:
 - 6.3.2 SMALL & MEDIUM ENTERPRISES:
 - 6.3.3 END USERS (MANUFACTURERS/CONSUMERS):



6.3.4 KEY INFLUENCERS

6.4 INDUSTRY INSIGHTS

6.4.1 LACTOBACILLUS SPECIES SEGMENT DOMINATED THE SILAGE

INOCULANTS MARKET IN 2014

6.4.2 LACTOBACILLUS SPECIES: PROJECTED TO BE THE FASTEST-GROWING

SEGMENT IN THE SILAGE INOCULANTS MARKET

- 6.5 PORTER'S FIVE FORCES ANALYSIS
 - 6.5.1 INTENSITY OF COMPETITIVE RIVALRY
 - 6.5.2 BARGAINING POWER OF BUYERS
 - 6.5.3 BARGAINING POWER OF SUPPLIERS
 - 6.5.4 THREAT OF NEW ENTRANTS
 - 6.5.5 THREAT OF SUBSTITUTES
- 6.6 STRATEGIC BENCHMARKING
 - 6.6.1 EXPANSION & PRODUCT PORTFOLIO ENHANCEMENT
- 6.6.2 EXPANDING BUSINESS BY INVESTMENTS, AGREEMENTS, ACQUISITIONS, COLLABORATIONS, AND PARTNERSHIPS

7 SILAGE INOCULANTS MARKET, BY TYPE

- 7.1 INTRODUCTION
- 7.2 HOMOFERMENTATIVE
- 7.3 HETEROFERMENTATIVE

8 SILAGE INOCULANTS MARKET, BY SPECIES

- 8.1 INTRODUCTION
- 8.2 SILAGE INOCULANTS MARKET, BY SPECIES, 2013-2020
- 8.3 LACTOBACILLUS SPECIES
- 8.4 PEDIOCOCCUS SPECIES
- 8.5 ENTEROCOCCUS SPECIES

9 SILAGE ENZYMES MARKET, BY TYPE

- 9.1 INTRODUCTION
- 9.2 SILAGE ENZYMES MARKET, BY TYPE, 2013-2020
- 9.3 FIBER-DIGESTING
- 9.4 STARCH-DIGESTING

10 SILAGE INOCULANTS & ENZYMES MARKET, BY CROP TYPE



- 10.1 INTRODUCTION
- 10.2 CORN
- 10.3 SORGHUM
- 10.4 ALFALFA
- 10.5 CLOVER
- 10.6 OTHERS (CROP TYPE)

11 SILAGE INOCULANTS & ENZYMES MARKET, BY REGION

- 11.1 INTRODUCTION
- 11.2 NORTH AMERICA
 - 11.2.1 U.S.
 - 11.2.2 CANADA
 - 11.2.3 MEXICO
- **11.3 EUROPE**
 - **11.3.1 GERMANY**
 - 11.3.2 FRANCE
 - 11.3.3 RUSSIA
 - 11.3.4 POLAND
 - 11.3.5 ITALY
 - 11.3.6 REST OF EUROPE
- 11.4 ASIA-PACIFIC
 - 11.4.1 CHINA
 - 11.4.2 INDIA
 - 11.4.3 AUSTRALIA
 - 11.4.4 JAPAN
 - 11.4.5 REST OF ASIA-PACIFIC
- 11.5 LATIN AMERICA
 - 11.5.1 BRAZIL
 - 11.5.2 ARGENTINA
 - 11.5.3 REST OF LATIN AMERICA
- 11.6 REST OF THE WORLD (ROW)
 - 11.6.1 SOUTH AFRICA
 - 11.6.2 OTHERS IN ROW

12 COMPETITIVE LANDSCAPE

12.1 OVERVIEW



- 12.2 SILAGE INOCULANTS & ENZYMES MARKET: MARKET SHARE ANALYSIS
- 12.3 COMPETITIVE SITUATION & TRENDS
 - 12.3.1 EXPANSIONS
 - 12.3.2 NEW PRODUCT LAUNCHES
 - 12.3.3 COLLABORATIONS, PARTNERSHIPS, JOINT VENTURES & AGREEMENTS
 - 12.3.4 ACQUISITIONS
 - 12.3.5 INVESTMENTS, DIVESTMENTS & DISSOLUTIONS

13 COMPANY PROFILES

(Company at a Glance, Recent Financials, Products & Services, Strategies & Insights, & Recent Developments)*

- 13.1 INTRODUCTION
- 13.2 ARCHER DANIELS MIDLAND COMPANY
- 13.3 CHR. HANSEN A/S
- 13.4 E. I. DU PONT DE NEMOURS AND COMPANY
- 13.5 KEMIN INDUSTRIES
- 13.6 VOLAC INTERNATIONAL LTD.
- 13.7 ADDCON GROUP GMBH
- 13.8 AGRI-KING INC.
- 13.9 BIOMIN HOLDING GMBH
- 13.10 LALLEMAND INC.
- 13.11 SCHAUMANN BIOENERGY GMBH

14 APPENDIX

- 14.1 INSIGHTS OF INDUSTRY EXPERTS
- 14.2 DISCUSSION GUIDE
- 14.3 MORE COMPANY DEVELOPMENTS
 - 14.3.1 NEW PRODUCT LAUNCHES/DEVELOPMENTS
 - 14.3.2 MERGERS & ACQUISITIONS
 - 14.3.3 EXPANSIONS & INVESTMENTS
- 14.4 INTRODUCING RT: REAL TIME MARKET INTELLIGENCE
- 14.5 AVAILABLE CUSTOMIZATIONS
- 14.6 RELATED REPORTS

^{*}Details on company at a glance, recent financials, products & services, strategies & insights, & recent developments might not be captured in case of unlisted companies.





List Of Tables

LIST OF TABLES

Table 1 WORLD LIVESTOCK NUMBERS (MILLION HEAD)

Table 2 EFFECT OF INOCULANT ON SILAGE FERMENTATION, AEROBIC

STABILITY, INTAKE GROWTH AND MILK PRODUCTION

Table 3 SILAGE INOCULANTS MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 4 HOMOFERMENTATIVE MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 5 HETEROFERMENTATIVE MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 6 SILAGE INOCULANTS MARKET SIZE, BY SPECIES, 2013-2020 (\$MILLION)

Table 7 LACTOBACILLUS SPECIES MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 8 PEDIOCOCCUS SPECIES MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 9 ENTEROCOCCUS SPECIES MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 10 SILAGE ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 11 FIBER-DIGESTING MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 12 STARCH-DIGESTING MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 13 SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY CROP TYPE, 2013-2020 (\$MILLION)

Table 14 EVALUATION OF CORN SILAGE: TYPICAL CORN SILAGE NUTRIENT

VALUES & CAUSES FOR VALUES OUTSIDE THE NORMAL RANGE

Table 15 CORN SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 16 SORGHUM SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 17 PERCENTAGE DRY MATTER LOSSES OF ALFALFA FROM FIELD TO FEEDING

Table 18 AVERAGE ALFALFA PROTEIN CONTENT

Table 19 ALFALFA SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 20 CLOVER SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 21 QUALITY OF SILAGE

Table 22 OTHER CROP SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)



Table 23 SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

Table 24 NORTH AMERICA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY COUNTRY, 2013-2020 (\$MILLION)

Table 25 NORTH AMERICA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 26 NORTH AMERICA: SILAGE INOCULANTS MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 27 NORTH AMERICA: SILAGE INOCULANTS MARKET SIZE, BY SPECIES, 2013-2020 (\$MILLION)

Table 28 NORTH AMERICA: SILAGE ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 29 NORTH AMERICA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY CROP TYPE, 2013-2020 (\$MILLION)

Table 30 U.S.: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 31 CANADA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 32 MEXICO: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 33 EUROPE: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY COUNTRY, 2013-2020 (\$MILLION)

Table 34 EUROPE: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 35 EUROPE: SILAGE INOCULANTS MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 36 EUROPE: SILAGE INOCULANTS MARKET SIZE, BY SPECIES, 2013-2020 (\$MILLION)

Table 37 EUROPE: SILAGE ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 38 EUROPE: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY CROP TYPE, 2013-2020 (\$MILLION)

Table 39 GERMANY: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 40 FRANCE: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 41 RUSSIA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 42 POLAND: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE,



2013-2020 (\$MILLION)

Table 43 ITALY: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 44 RUSSIA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 45 ASIA-PACIFIC: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY COUNTRY, 2013-2020 (\$MILLION)

Table 46 ASIA-PACIFIC: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 47 ASIA-PACIFIC: SILAGE INOCULANTS MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 48 ASIA-PACIFIC: SILAGE INOCULANTS MARKET SIZE, BY SPECIES, 2013-2020 (\$MILLION)

Table 49 ASIA-PACIFIC: SILAGE ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 50 ASIA-PACIFIC: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY CROP TYPE, 2013-2020 (\$MILLION)

Table 51 CHINA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 52 INDIA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 53 AUSTRALIA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 54 JAPAN: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 55 REST OF ASIA-PACIFIC: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 56 LATIN AMERICA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY COUNTRY, 2013-2020 (\$MILLION)

Table 57 LATIN AMERICA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 58 LATIN AMERICA: SILAGE INOCULANTS MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 59 LATIN AMERICA: SILAGE INOCULANTS MARKET SIZE, BY SPECIES, 2013-2020 (\$MILLION)

Table 60 LATIN AMERICA: SILAGE ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 61 LATIN AMERICA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY CROP TYPE, 2013-2020 (\$MILLION)



Table 62 BRAZIL: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 63 ARGENTINA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 64 REST OF LATIN AMERICA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 65 ROW: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY COUNTRY, 2013-2020 (\$MILLION)

Table 66 ROW: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 67 ROW: SILAGE INOCULANTS MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 68 ROW: SILAGE INOCULANTS MARKET SIZE, BY SPECIES, 2013-2020 (\$MILLION)

Table 69 ROW: SILAGE ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION) Table 70 ROW: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY CROP TYPE, 2013-2020 (\$MILLION)

Table 71 SOUTH AFRICA: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 72 OTHERS IN ROW: SILAGE INOCULANTS & ENZYMES MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

Table 73 EXPANSIONS, 2010–2015

Table 74 NEW PRODUCT LAUNCHES, 2010–2015

Table 75 COLLABORATIONS, PARTNERSHIPS, JOINT VENTURES & AGREEMENTS, 2010–2015

Table 76 ACQUISITIONS, 2010-2015

Table 77 INVESTMENTS, DIVESTMENTS, AND DISSOLUTIONS, 2010–2015



About

The report "Silage Inoculants & Enzymes Market by Type (Homofermentative & Heterofermentative), Species (Lactobacillus, Pediococcus & Enterococcus), Enzymes (Fibre-digesting & Starch-digesting), Crop-type, & by Geography - Global Trends and Forecast to 2020", defines and segment the global market with analysis of current demand and forecasted consumption in terms of value.

The global silage inoculants & enzymes market is expected to reach \$489.05 Million by 2020, at a CAGR of 4.0% from 2015 to 2020.

The revenues are forecasted for the major regions such as North America, Europe, Asia-Pacific, Latin America, and Rest of the World (RoW). The key countries in these regions are covered and their market sizes are forecasted. Further, the market is segmented and revenues are forecasted on the basis of type, species, enzyme, and crop-type.

Inoculants comprise of anaerobic lactic acid bacteria (LAB), used to increase the fermentation rate in silage. The inoculant added to the silage increases the fermentation rate, causing a more rapid decline in the pH level. The silage inoculants & enzymes market is projected to exhibit a growth potential (4.0%) for the next five years. Enzymes included in the inoculant products break down some of the fibre and starch. However, the inoculants are not always successful in improving the fermentation or animal performance.

The high growth potential in the emerging markets provides expansion opportunities for the companies. The global market for silage inoculants & enzymes was valued at \$ 387.08 Million in 2014 and is growing at a CAGR of 4.0% from 2015 to 2020. North America dominated the global market and is expected to be the fastest-growing in the near future owing to the increased consumer awareness and availability of latest technology equipment.



I would like to order

Product name: Silage Inoculants & Enzymes Market by Type (Homofermentative & Heterofermentative),

Species (Lactobacillus, Pediococcus & Enterococcus), Enzymes (Fibre-digesting & Starch-

digesting), Crop-type, & by Geography - Global Trends and Forecast to 2020

Product link: https://marketpublishers.com/r/SF776CD8854EN.html

Price: US\$ 5,650.00 (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/SF776CD8854EN.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
	Custumer 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