

# **Global Chondroitin Sulfate Market Size study & Forecast, by Source (Bovine, Swine, Poultry, Shark, Synthetic), by Application (Nutraceuticals, Pharmaceuticals, Animal Feed, Personal Care & Cosmetics, Other Applications) and Regional Analysis, 2022-2029**

<https://marketpublishers.com/r/GF1B26E7E849EN.html>

Date: April 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GF1B26E7E849EN

## **Abstracts**

Global Chondroitin Sulfate Market is valued at approximately USD 1.21 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 3.5% over the forecast period 2022-2029. Chondroitin sulfate is also named glycosaminoglycan sulfated glucose (GAG). Chondroitin sulfate is composed of a long chain of alternating sugars such as glucuronic acid and N-acetylgalactosamine. This molecule is an important part of the extracellular matrix, which is formed of several connective tissues like bone, cartilage, tendons, and ligaments. Commercial production of chondroitin sulfate uses a variety of animal sources, including pigs, chickens, cows, fish, sharks, crocodiles, and other creatures. The rising demand for nutraceutical goods, coupled with the growing demand in animal feed industry are acting as catalyzing factors for the demand for chondroitin sulfate in the global market.

The rising incidences of osteoarthritis is playing a significant role for propelling the market demand across the globe. The World Health Organization Association (WHO), stated that globally around 9.6% of men and 18% of women aged more than 60 are suffering from symptomatic osteoarthritis. Among these, nearly 80% have problems in movement and 25% are not able to perform day-to-day activities. Thereby, the rising incidence rate of orthopedic disorders is likely to stipulate the growth of global plasma therapy market. Thereby, the rising usage of chondroitin sulfate for the treatment of osteoarthritis is augmenting the market expansion at a significant rate. Moreover, rising

investment in research and development, as well as the growing applications of chondroitin sulfate are presenting various lucrative opportunities over the forecasting years. However, adverse effects of chondroitin sulfate and stringent regulations by various regulatory bodies are challenging the market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Chondroitin Sulfate Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America dominated the market in terms of revenue, owing to the rising prevalence of osteoarthritis, along with the increasing United States Food and Drug Administration approvals for chondroitin sulfate. Whereas, the Asia Pacific is expected to grow with the highest CAGR during the forecast period, owing to factors such as the growing aging population in emerging nations, as well as rising use of sodium chondroitin sulfate-infused pharmaceuticals and nutraceuticals in the market space.

Major market players included in this report are:

TSI Group Ltd.

Qingdao Wan Toulmin Biological Sources Co., Ltd.

Hebei SanXin Industrial Group

Bioiberica SAU

Sigma Aldrich, Inc.

ZPD

Sino Siam Biotechnology Company Ltd.

BRF

Bio-gen Extracts Pvt. Ltd.

Seikagaku Corp.

Recent Developments in the Market:

In July 2022, Infinitus unveiled the introduction of a new series of Li Mai Jian supplements with the theme 'Making Bones Stronger for Joint Health'.

In March 2022, Bioiberica, a global life science company announced that the company entered into a partnership agreement with ByHealth, The key objective of this partnership is to introduce a new product for its market-leading joint health brand, Highflex. Highflex type II collagen tablets is developed to fulfill the unmet requirements of consumer for innovative, low-dose joint health solutions across China.

Global Chondroitin Sulfate Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Source, Application, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Source:

Bovine

Swine

Poultry

Shark

Synthetic

By Application:

Nutraceuticals

Pharmaceuticals

Animal Feed

Personal Care & Cosmetics

Other Applications

By Region:

North America

U.S.

Canada

Europe

UK

Germany  
France  
Spain  
Italy  
ROE  
Asia Pacific  
China  
India  
Japan  
Australia  
South Korea  
RoAPAC  
Latin America  
Brazil  
Mexico  
RoLA  
Rest of the World

## Contents

### **CHAPTER 1. EXECUTIVE SUMMARY**

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2019-2029 (USD Billion)
  - 1.2.1. Chondroitin Sulfate Market, by Region, 2019-2029 (USD Billion)
  - 1.2.2. Chondroitin Sulfate Market, by Source, 2019-2029 (USD Billion)
  - 1.2.3. Chondroitin Sulfate Market, by Application, 2019-2029 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### **CHAPTER 2. GLOBAL CHONDROITIN SULFATE MARKET DEFINITION AND SCOPE**

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Scope of the Study
  - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### **CHAPTER 3. GLOBAL CHONDROITIN SULFATE MARKET DYNAMICS**

- 3.1. Chondroitin Sulfate Market Impact Analysis (2019-2029)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Rising demand for nutraceutical goods
    - 3.1.1.2. Increasing prevalence of osteoarthritis
  - 3.1.2. Market Challenges
    - 3.1.2.1. Adverse effects of chondroitin sulfate
    - 3.1.2.2. Stringent regulations by various regulatory bodies
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Rising investment in research and development
    - 3.1.3.2. Growing applications of chondroitin sulfate

### **CHAPTER 4. GLOBAL CHONDROITIN SULFATE MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Futuristic Approach to Porter's 5 Force Model (2019-2029)
- 4.3. PEST Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
  - 4.3.3. Social
  - 4.3.4. Technological
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. Industry Experts Prospective
- 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT**

- 5.1. Assessment of the overall impact of COVID-19 on the industry
- 5.2. Pre COVID-19 and post COVID-19 Market scenario

## **CHAPTER 6. GLOBAL CHONDROITIN SULFATE MARKET, BY SOURCE**

- 6.1. Market Snapshot
- 6.2. Global Chondroitin Sulfate Market by Source, Performance - Potential Analysis
- 6.3. Global Chondroitin Sulfate Market Estimates & Forecasts by Source 2019-2029 (USD Billion)
- 6.4. Chondroitin Sulfate Market, Sub Segment Analysis
  - 6.4.1. Bovine
  - 6.4.2. Swine
  - 6.4.3. Poultry
  - 6.4.4. Shark
  - 6.4.5. Synthetic

## **CHAPTER 7. GLOBAL CHONDROITIN SULFATE MARKET, BY APPLICATION**

- 7.1. Market Snapshot
- 7.2. Global Chondroitin Sulfate Market by Application, Performance - Potential Analysis
- 7.3. Global Chondroitin Sulfate Market Estimates & Forecasts by Application 2019-2029

(USD Billion)

#### 7.4. Chondroitin Sulfate Market, Sub Segment Analysis

- 7.4.1. Nutraceuticals
- 7.4.2. Pharmaceuticals
- 7.4.3. Animal Feed
- 7.4.4. Personal Care & Cosmetics
- 7.4.5. Other Applications

## **CHAPTER 8. GLOBAL CHONDROITIN SULFATE MARKET, REGIONAL ANALYSIS**

### 8.1. Chondroitin Sulfate Market, Regional Market Snapshot

#### 8.2. North America Chondroitin Sulfate Market

##### 8.2.1. U.S. Chondroitin Sulfate Market

8.2.1.1. Source breakdown estimates & forecasts, 2019-2029

8.2.1.2. Application breakdown estimates & forecasts, 2019-2029

##### 8.2.2. Canada Chondroitin Sulfate Market

#### 8.3. Europe Chondroitin Sulfate Market Snapshot

##### 8.3.1. U.K. Chondroitin Sulfate Market

##### 8.3.2. Germany Chondroitin Sulfate Market

##### 8.3.3. France Chondroitin Sulfate Market

##### 8.3.4. Spain Chondroitin Sulfate Market

##### 8.3.5. Italy Chondroitin Sulfate Market

##### 8.3.6. Rest of Europe Chondroitin Sulfate Market

#### 8.4. Asia-Pacific Chondroitin Sulfate Market Snapshot

##### 8.4.1. China Chondroitin Sulfate Market

##### 8.4.2. India Chondroitin Sulfate Market

##### 8.4.3. Japan Chondroitin Sulfate Market

##### 8.4.4. Australia Chondroitin Sulfate Market

##### 8.4.5. South Korea Chondroitin Sulfate Market

##### 8.4.6. Rest of Asia Pacific Chondroitin Sulfate Market

#### 8.5. Latin America Chondroitin Sulfate Market Snapshot

##### 8.5.1. Brazil Chondroitin Sulfate Market

##### 8.5.2. Mexico Chondroitin Sulfate Market

##### 8.5.3. Rest of Latin America Chondroitin Sulfate Market

#### 8.6. Rest of The World Chondroitin Sulfate Market

## **CHAPTER 9. COMPETITIVE INTELLIGENCE**

### 9.1. Top Market Strategies

## 9.2. Company Profiles

### 9.2.1. TSI Group Ltd.

#### 9.2.1.1. Key Information

#### 9.2.1.2. Overview

#### 9.2.1.3. Financial (Subject to Data Availability)

#### 9.2.1.4. Product Summary

#### 9.2.1.5. Recent Developments

### 9.2.2. Qingdao Wan Toulmin Biological Sources Co., Ltd.

### 9.2.3. Hebei SanXin Industrial Group

### 9.2.4. Bioiberica SAU

### 9.2.5. Sigma Aldrich, Inc.

### 9.2.6. ZPD

### 9.2.7. Sino Siam Biotechnology Company Ltd.

### 9.2.8. BRF

### 9.2.9. Bio-gen Extracts Pvt. Ltd.

### 9.2.10. Seikagaku Corp.

## **CHAPTER 10. RESEARCH PROCESS**

### 10.1. Research Process

#### 10.1.1. Data Mining

#### 10.1.2. Analysis

#### 10.1.3. Market Estimation

#### 10.1.4. Validation

#### 10.1.5. Publishing

### 10.2. Research Attributes

### 10.3. Research Assumption



## List Of Tables

### LIST OF TABLES

TABLE 1. Global Chondroitin Sulfate Market, report scope

TABLE 2. Global Chondroitin Sulfate Market estimates & forecasts by Region  
2019-2029 (USD Billion)

TABLE 3. Global Chondroitin Sulfate Market estimates & forecasts by Source  
2019-2029 (USD Billion)

TABLE 4. Global Chondroitin Sulfate Market estimates & forecasts by Application  
2019-2029 (USD Billion)

TABLE 5. Global Chondroitin Sulfate Market by segment, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 6. Global Chondroitin Sulfate Market by region, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 7. Global Chondroitin Sulfate Market by segment, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 8. Global Chondroitin Sulfate Market by region, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 9. Global Chondroitin Sulfate Market by segment, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 10. Global Chondroitin Sulfate Market by region, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 11. Global Chondroitin Sulfate Market by segment, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 12. Global Chondroitin Sulfate Market by region, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 13. Global Chondroitin Sulfate Market by segment, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 14. Global Chondroitin Sulfate Market by region, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 15. U.S. Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD  
Billion)

TABLE 16. U.S. Chondroitin Sulfate Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 17. U.S. Chondroitin Sulfate Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 18. Canada Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD  
Billion)

TABLE 19. Canada Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 20. Canada Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 21. UK Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 22. UK Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 23. UK Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 24. Germany Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 25. Germany Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 26. Germany Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 27. France Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 28. France Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 29. France Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 30. Italy Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 31. Italy Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 32. Italy Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 33. Spain Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 34. Spain Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 35. Spain Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 36. RoE Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 37. RoE Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 38. RoE Chondroitin Sulfate Market estimates & forecasts by segment

2019-2029 (USD Billion)

TABLE 39. China Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 40. China Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 41. China Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 42. India Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 43. India Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 44. India Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 45. Japan Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 46. Japan Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 47. Japan Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 48. South Korea Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 49. South Korea Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 50. South Korea Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 51. Australia Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 52. Australia Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 53. Australia Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 54. RoAPAC Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 55. RoAPAC Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 56. RoAPAC Chondroitin Sulfate Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 57. Brazil Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 58. Brazil Chondroitin Sulfate Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 59. Brazil Chondroitin Sulfate Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 60. Mexico Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD  
Billion)

TABLE 61. Mexico Chondroitin Sulfate Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 62. Mexico Chondroitin Sulfate Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 63. RoLA Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD  
Billion)

TABLE 64. RoLA Chondroitin Sulfate Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 65. RoLA Chondroitin Sulfate Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 66. Row Chondroitin Sulfate Market estimates & forecasts, 2019-2029 (USD  
Billion)

TABLE 67. Row Chondroitin Sulfate Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 68. Row Chondroitin Sulfate Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global Chondroitin Sulfate  
Market

TABLE 70. List of primary sources, used in the study of global Chondroitin Sulfate  
Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final  
deliverable

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Chondroitin Sulfate Market, research methodology
  - FIG 2. Global Chondroitin Sulfate Market, Market estimation techniques
  - FIG 3. Global Market size estimates & forecast methods
  - FIG 4. Global Chondroitin Sulfate Market, key trends 2021
  - FIG 5. Global Chondroitin Sulfate Market, growth prospects 2022-2029
  - FIG 6. Global Chondroitin Sulfate Market, porters 5 force model
  - FIG 7. Global Chondroitin Sulfate Market, pest analysis
  - FIG 8. Global Chondroitin Sulfate Market, value chain analysis
  - FIG 9. Global Chondroitin Sulfate Market by segment, 2019 & 2029 (USD Billion)
  - FIG 10. Global Chondroitin Sulfate Market by segment, 2019 & 2029 (USD Billion)
  - FIG 11. Global Chondroitin Sulfate Market by segment, 2019 & 2029 (USD Billion)
  - FIG 12. Global Chondroitin Sulfate Market by segment, 2019 & 2029 (USD Billion)
  - FIG 13. Global Chondroitin Sulfate Market by segment, 2019 & 2029 (USD Billion)
  - FIG 14. Global Chondroitin Sulfate Market, regional snapshot 2019 & 2029
  - FIG 15. North America Chondroitin Sulfate Market 2019 & 2029 (USD Billion)
  - FIG 16. Europe Chondroitin Sulfate Market 2019 & 2029 (USD Billion)
  - FIG 17. Asia Pacific Chondroitin Sulfate Market 2019 & 2029 (USD Billion)
  - FIG 18. Latin America Chondroitin Sulfate Market 2019 & 2029 (USD Billion)
  - FIG 19. Global Chondroitin Sulfate Market, company Market share analysis (2021)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

## I would like to order

Product name: Global Chondroitin Sulfate Market Size study & Forecast, by Source (Bovine, Swine, Poultry, Shark, Synthetic), by Application (Nutraceuticals, Pharmaceuticals, Animal Feed, Personal Care & Cosmetics, Other Applications) and Regional Analysis, 2022-2029

Product link: <https://marketpublishers.com/r/GF1B26E7E849EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GF1B26E7E849EN.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