

Global High Protein Vegetables Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Protein Vegetables market size is expected to reach \$ 1306 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

High protein vegetables refer to vegetable crops cultivated through traditional breeding or modern biotechnology, with a protein content significantly higher than conventional varieties. Their development aims to directly address the protein supply gap arising from global population growth and dietary shifts, particularly providing an innovative solution for finding sustainable, low-environmentally burdensome plant-based protein sources that can be integrated into daily diets. Demand primarily stems from three areas: nutrition and health (providing more convenient natural plant protein for vegetarians, fitness enthusiasts, and general consumers); agricultural sustainability (vegetable cultivation consumes fewer resources and has lower carbon emissions compared to animal protein production); and food security (increasing protein yield per unit of land). Upstream development involves seed research, breeding technologies (such as gene editing and hybridization), and large-scale cultivation, relying on collaboration between agricultural technology companies and growers. Downstream development occurs through retail (fresh vegetables, dried goods), food manufacturers (as ingredients in protein bars and plant-based meats), and catering channels, ultimately reaching consumers in diverse forms. In 2025, the production of high protein vegetables is projected to reach approximately 250,000 tons, with an average price of approximately US\$3,000 per ton, a gross profit margin of approximately 30%, and a single-line production capacity of 3,000 tons per year.

This report studies the global High Protein Vegetables production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Protein Vegetables and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Protein Vegetables that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Protein Vegetables total production and demand, 2021-2032, (Kilotons)

Global High Protein Vegetables total production value, 2021-2032, (USD Million)

Global High Protein Vegetables production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global High Protein Vegetables consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: High Protein Vegetables domestic production, consumption, key domestic manufacturers and share

Global High Protein Vegetables production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global High Protein Vegetables production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global High Protein Vegetables production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global High Protein Vegetables market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Benson Hill, Inc. (NYSE: BHIL, Missouri USA), Equinom Ltd. (Unlisted, Kfar Saba Israel), Archer-Daniels-Midland Company (NYSE: ADM, Illinois USA), Syngenta Group (Unlisted, Beijing China), Dole Plc (NYSE: DOLE, Dublin Ireland), Fresh Del Monte Produce Inc. (NYSE: FDP, Florida USA), Grimmway Farms, Inc. (Unlisted, California USA), Mitsui & Co., Ltd. (TYO: 8031, Tokyo Japan), Shanghai Xuerong Biotechnology Co., Ltd. (SZSE: 300511, Shanghai China), Jiangsu Hualu Biological Technology Co., Ltd. (SZSE: 300970, Jiangsu China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Protein Vegetables market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High Protein Vegetables Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Protein Vegetables Market, Segmentation by Type:

Leafy Greens

Flower Vegetables

Stem Vegetables

Mushrooms

Global High Protein Vegetables Market, Segmentation by Processing Depth:

Fresh High-Protein Vegetables

Processed High-Protein Vegetable

Global High Protein Vegetables Market, Segmentation by Application:

Home Cooking

Food Manufacturing

Pet Nutrition

Other

Companies Profiled:

Benson Hill, Inc. (NYSE: BHIL, Missouri USA)

Equinom Ltd. (Unlisted, Kfar Saba Israel)

Archer-Daniels-Midland Company (NYSE: ADM, Illinois USA)

Syngenta Group (Unlisted, Beijing China)

Dole Plc (NYSE: DOLE, Dublin Ireland)

Fresh Del Monte Produce Inc. (NYSE: FDP, Florida USA)

Grimmway Farms, Inc. (Unlisted, California USA)

Mitsui & Co., Ltd. (TYO: 8031, Tokyo Japan)

Shanghai Xuerong Biotechnology Co., Ltd. (SZSE: 300511, Shanghai China)

Jiangsu Hualu Biological Technology Co., Ltd. (SZSE: 300970, Jiangsu China)

Monterey Mushrooms, Inc. (Unlisted, California USA)

Giorgio Fresh Co. (Unlisted, Pennsylvania USA)

Scelta Mushrooms BV (Unlisted, Horst Netherlands)

Key Questions Answered:

1. How big is the global High Protein Vegetables market?
2. What is the demand of the global High Protein Vegetables market?
3. What is the year over year growth of the global High Protein Vegetables market?
4. What is the production and production value of the global High Protein Vegetables market?
5. Who are the key producers in the global High Protein Vegetables market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Filtration & Separation Equipment Introduction
- 1.2 World Filtration & Separation Equipment Supply & Forecast
 - 1.2.1 World Filtration & Separation Equipment Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Filtration & Separation Equipment Production (2021-2032)
 - 1.2.3 World Filtration & Separation Equipment Pricing Trends (2021-2032)
- 1.3 World Filtration & Separation Equipment Production by Region (Based on Production Site)
 - 1.3.1 World Filtration & Separation Equipment Production Value by Region (2021-2032)
 - 1.3.2 World Filtration & Separation Equipment Production by Region (2021-2032)
 - 1.3.3 World Filtration & Separation Equipment Average Price by Region (2021-2032)
 - 1.3.4 North America Filtration & Separation Equipment Production (2021-2032)
 - 1.3.5 Europe Filtration & Separation Equipment Production (2021-2032)
 - 1.3.6 China Filtration & Separation Equipment Production (2021-2032)
 - 1.3.7 Japan Filtration & Separation Equipment Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Filtration & Separation Equipment Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Filtration & Separation Equipment Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Filtration & Separation Equipment Demand (2021-2032)
- 2.2 World Filtration & Separation Equipment Consumption by Region
 - 2.2.1 World Filtration & Separation Equipment Consumption by Region (2021-2026)
 - 2.2.2 World Filtration & Separation Equipment Consumption Forecast by Region (2027-2032)
- 2.3 United States Filtration & Separation Equipment Consumption (2021-2032)
- 2.4 China Filtration & Separation Equipment Consumption (2021-2032)
- 2.5 Europe Filtration & Separation Equipment Consumption (2021-2032)
- 2.6 Japan Filtration & Separation Equipment Consumption (2021-2032)
- 2.7 South Korea Filtration & Separation Equipment Consumption (2021-2032)
- 2.8 ASEAN Filtration & Separation Equipment Consumption (2021-2032)
- 2.9 India Filtration & Separation Equipment Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Filtration & Separation Equipment Production Value by Manufacturer (2021-2026)
- 3.2 World Filtration & Separation Equipment Production by Manufacturer (2021-2026)
- 3.3 World Filtration & Separation Equipment Average Price by Manufacturer (2021-2026)
- 3.4 Filtration & Separation Equipment Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Filtration & Separation Equipment Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Filtration & Separation Equipment in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Filtration & Separation Equipment in 2025
- 3.6 Filtration & Separation Equipment Market: Overall Company Footprint Analysis
 - 3.6.1 Filtration & Separation Equipment Market: Region Footprint
 - 3.6.2 Filtration & Separation Equipment Market: Company Product Type Footprint
 - 3.6.3 Filtration & Separation Equipment Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Filtration & Separation Equipment Production Value Comparison
 - 4.1.1 United States VS China: Filtration & Separation Equipment Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Filtration & Separation Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Filtration & Separation Equipment Production Comparison
 - 4.2.1 United States VS China: Filtration & Separation Equipment Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Filtration & Separation Equipment Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Filtration & Separation Equipment Consumption Comparison

4.3.1 United States VS China: Filtration & Separation Equipment Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Filtration & Separation Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Filtration & Separation Equipment Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Filtration & Separation Equipment Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Filtration & Separation Equipment Production Value (2021-2026)

4.4.3 United States Based Manufacturers Filtration & Separation Equipment Production (2021-2026)

4.5 China Based Filtration & Separation Equipment Manufacturers and Market Share

4.5.1 China Based Filtration & Separation Equipment Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Filtration & Separation Equipment Production Value (2021-2026)

4.5.3 China Based Manufacturers Filtration & Separation Equipment Production (2021-2026)

4.6 Rest of World Based Filtration & Separation Equipment Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Filtration & Separation Equipment Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Filtration & Separation Equipment Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Filtration & Separation Equipment Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Filtration & Separation Equipment Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Coarse Filtration

5.2.2 Fine Filtration

5.2.3 Microfiltration

5.2.4 Ultrafiltration

5.3 Market Segment by Type

5.3.1 World Filtration & Separation Equipment Production by Type (2021-2032)

- 5.3.2 World Filtration & Separation Equipment Production Value by Type (2021-2032)
- 5.3.3 World Filtration & Separation Equipment Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FILTRATION MEDIUM

6.1 World Filtration & Separation Equipment Market Size Overview by Filtration Medium: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Filtration Medium

- 6.2.1 Filter Cartridge
- 6.2.2 Filter Bag
- 6.2.3 Filter Plate
- 6.2.4 Others

6.3 Market Segment by Filtration Medium

6.3.1 World Filtration & Separation Equipment Production by Filtration Medium (2021-2032)

6.3.2 World Filtration & Separation Equipment Production Value by Filtration Medium (2021-2032)

6.3.3 World Filtration & Separation Equipment Average Price by Filtration Medium (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Filtration & Separation Equipment Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

- 7.2.1 General Manufacturing
- 7.2.2 Semiconductor & Electronics
- 7.2.3 Food & Beverage
- 7.2.4 Pharmaceuticals
- 7.2.5 Chemical Industry
- 7.2.6 Water Treatment & Environmental
- 7.2.7 Others

7.3 Market Segment by Application

7.3.1 World Filtration & Separation Equipment Production by Application (2021-2032)

7.3.2 World Filtration & Separation Equipment Production Value by Application (2021-2032)

7.3.3 World Filtration & Separation Equipment Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Pall Corporation

8.1.1 Pall Corporation Details

8.1.2 Pall Corporation Major Business

8.1.3 Pall Corporation Filtration & Separation Equipment Product and Services

8.1.4 Pall Corporation Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Pall Corporation Recent Developments/Updates

8.1.6 Pall Corporation Competitive Strengths & Weaknesses

8.2 Sartorius

8.2.1 Sartorius Details

8.2.2 Sartorius Major Business

8.2.3 Sartorius Filtration & Separation Equipment Product and Services

8.2.4 Sartorius Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Sartorius Recent Developments/Updates

8.2.6 Sartorius Competitive Strengths & Weaknesses

8.3 Merck Millipore

8.3.1 Merck Millipore Details

8.3.2 Merck Millipore Major Business

8.3.3 Merck Millipore Filtration & Separation Equipment Product and Services

8.3.4 Merck Millipore Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Merck Millipore Recent Developments/Updates

8.3.6 Merck Millipore Competitive Strengths & Weaknesses

8.4 Donaldson Company

8.4.1 Donaldson Company Details

8.4.2 Donaldson Company Major Business

8.4.3 Donaldson Company Filtration & Separation Equipment Product and Services

8.4.4 Donaldson Company Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Donaldson Company Recent Developments/Updates

8.4.6 Donaldson Company Competitive Strengths & Weaknesses

8.5 Eaton

8.5.1 Eaton Details

8.5.2 Eaton Major Business

8.5.3 Eaton Filtration & Separation Equipment Product and Services

8.5.4 Eaton Filtration & Separation Equipment Production, Price, Value, Gross Margin

and Market Share (2021-2026)

8.5.5 Eaton Recent Developments/Updates

8.5.6 Eaton Competitive Strengths & Weaknesses

8.6 MANN+HUMMEL

8.6.1 MANN+HUMMEL Details

8.6.2 MANN+HUMMEL Major Business

8.6.3 MANN+HUMMEL Filtration & Separation Equipment Product and Services

8.6.4 MANN+HUMMEL Filtration & Separation Equipment Production, Price, Value,

Gross Margin and Market Share (2021-2026)

8.6.5 MANN+HUMMEL Recent Developments/Updates

8.6.6 MANN+HUMMEL Competitive Strengths & Weaknesses

8.7 Parker Hannifin

8.7.1 Parker Hannifin Details

8.7.2 Parker Hannifin Major Business

8.7.3 Parker Hannifin Filtration & Separation Equipment Product and Services

8.7.4 Parker Hannifin Filtration & Separation Equipment Production, Price, Value,

Gross Margin and Market Share (2021-2026)

8.7.5 Parker Hannifin Recent Developments/Updates

8.7.6 Parker Hannifin Competitive Strengths & Weaknesses

8.8 3M

8.8.1 3M Details

8.8.2 3M Major Business

8.8.3 3M Filtration & Separation Equipment Product and Services

8.8.4 3M Filtration & Separation Equipment Production, Price, Value, Gross Margin

and Market Share (2021-2026)

8.8.5 3M Recent Developments/Updates

8.8.6 3M Competitive Strengths & Weaknesses

8.9 Pentair

8.9.1 Pentair Details

8.9.2 Pentair Major Business

8.9.3 Pentair Filtration & Separation Equipment Product and Services

8.9.4 Pentair Filtration & Separation Equipment Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.9.5 Pentair Recent Developments/Updates

8.9.6 Pentair Competitive Strengths & Weaknesses

8.10 GEA Group

8.10.1 GEA Group Details

8.10.2 GEA Group Major Business

8.10.3 GEA Group Filtration & Separation Equipment Product and Services

8.10.4 GEA Group Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 GEA Group Recent Developments/Updates

8.10.6 GEA Group Competitive Strengths & Weaknesses

8.11 Alfa Laval

8.11.1 Alfa Laval Details

8.11.2 Alfa Laval Major Business

8.11.3 Alfa Laval Filtration & Separation Equipment Product and Services

8.11.4 Alfa Laval Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 Alfa Laval Recent Developments/Updates

8.11.6 Alfa Laval Competitive Strengths & Weaknesses

8.12 ANDRITZ

8.12.1 ANDRITZ Details

8.12.2 ANDRITZ Major Business

8.12.3 ANDRITZ Filtration & Separation Equipment Product and Services

8.12.4 ANDRITZ Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 ANDRITZ Recent Developments/Updates

8.12.6 ANDRITZ Competitive Strengths & Weaknesses

8.13 Camfil

8.13.1 Camfil Details

8.13.2 Camfil Major Business

8.13.3 Camfil Filtration & Separation Equipment Product and Services

8.13.4 Camfil Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 Camfil Recent Developments/Updates

8.13.6 Camfil Competitive Strengths & Weaknesses

8.14 SPX FLOW

8.14.1 SPX FLOW Details

8.14.2 SPX FLOW Major Business

8.14.3 SPX FLOW Filtration & Separation Equipment Product and Services

8.14.4 SPX FLOW Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 SPX FLOW Recent Developments/Updates

8.14.6 SPX FLOW Competitive Strengths & Weaknesses

8.15 Flottweg

8.15.1 Flottweg Details

8.15.2 Flottweg Major Business

- 8.15.3 Flottweg Filtration & Separation Equipment Product and Services
- 8.15.4 Flottweg Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.15.5 Flottweg Recent Developments/Updates
- 8.15.6 Flottweg Competitive Strengths & Weaknesses
- 8.16 Evoqua Water Technologies
 - 8.16.1 Evoqua Water Technologies Details
 - 8.16.2 Evoqua Water Technologies Major Business
 - 8.16.3 Evoqua Water Technologies Filtration & Separation Equipment Product and Services
 - 8.16.4 Evoqua Water Technologies Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.16.5 Evoqua Water Technologies Recent Developments/Updates
 - 8.16.6 Evoqua Water Technologies Competitive Strengths & Weaknesses
- 8.17 Veolia Water Technologies
 - 8.17.1 Veolia Water Technologies Details
 - 8.17.2 Veolia Water Technologies Major Business
 - 8.17.3 Veolia Water Technologies Filtration & Separation Equipment Product and Services
 - 8.17.4 Veolia Water Technologies Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.17.5 Veolia Water Technologies Recent Developments/Updates
 - 8.17.6 Veolia Water Technologies Competitive Strengths & Weaknesses
- 8.18 Filtration Group
 - 8.18.1 Filtration Group Details
 - 8.18.2 Filtration Group Major Business
 - 8.18.3 Filtration Group Filtration & Separation Equipment Product and Services
 - 8.18.4 Filtration Group Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.18.5 Filtration Group Recent Developments/Updates
 - 8.18.6 Filtration Group Competitive Strengths & Weaknesses
- 8.19 HYDAC
 - 8.19.1 HYDAC Details
 - 8.19.2 HYDAC Major Business
 - 8.19.3 HYDAC Filtration & Separation Equipment Product and Services
 - 8.19.4 HYDAC Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.19.5 HYDAC Recent Developments/Updates
 - 8.19.6 HYDAC Competitive Strengths & Weaknesses

8.20 Xylem

8.20.1 Xylem Details

8.20.2 Xylem Major Business

8.20.3 Xylem Filtration & Separation Equipment Product and Services

8.20.4 Xylem Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.20.5 Xylem Recent Developments/Updates

8.20.6 Xylem Competitive Strengths & Weaknesses

8.21 Sulzer

8.21.1 Sulzer Details

8.21.2 Sulzer Major Business

8.21.3 Sulzer Filtration & Separation Equipment Product and Services

8.21.4 Sulzer Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.21.5 Sulzer Recent Developments/Updates

8.21.6 Sulzer Competitive Strengths & Weaknesses

8.22 WesTech Engineering

8.22.1 WesTech Engineering Details

8.22.2 WesTech Engineering Major Business

8.22.3 WesTech Engineering Filtration & Separation Equipment Product and Services

8.22.4 WesTech Engineering Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.22.5 WesTech Engineering Recent Developments/Updates

8.22.6 WesTech Engineering Competitive Strengths & Weaknesses

8.23 FLSmidth

8.23.1 FLSmidth Details

8.23.2 FLSmidth Major Business

8.23.3 FLSmidth Filtration & Separation Equipment Product and Services

8.23.4 FLSmidth Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.23.5 FLSmidth Recent Developments/Updates

8.23.6 FLSmidth Competitive Strengths & Weaknesses

8.24 Metso Outotec

8.24.1 Metso Outotec Details

8.24.2 Metso Outotec Major Business

8.24.3 Metso Outotec Filtration & Separation Equipment Product and Services

8.24.4 Metso Outotec Filtration & Separation Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.24.5 Metso Outotec Recent Developments/Updates

8.24.6 Metso Outotec Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Filtration & Separation Equipment Industry Chain

9.2 Filtration & Separation Equipment Upstream Analysis

9.2.1 Filtration & Separation Equipment Core Raw Materials

9.2.2 Main Manufacturers of Filtration & Separation Equipment Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Filtration & Separation Equipment Production Mode

9.6 Filtration & Separation Equipment Procurement Model

9.7 Filtration & Separation Equipment Industry Sales Model and Sales Channels

9.7.1 Filtration & Separation Equipment Sales Model

9.7.2 Filtration & Separation Equipment Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High Protein Vegetables Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High Protein Vegetables Production Value by Region (2021-2026) & (USD Million)

Table 3. World High Protein Vegetables Production Value by Region (2027-2032) & (USD Million)

Table 4. World High Protein Vegetables Production Value Market Share by Region (2021-2026)

Table 5. World High Protein Vegetables Production Value Market Share by Region (2027-2032)

Table 6. World High Protein Vegetables Production by Region (2021-2026) & (Kilotons)

Table 7. World High Protein Vegetables Production by Region (2027-2032) & (Kilotons)

Table 8. World High Protein Vegetables Production Market Share by Region (2021-2026)

Table 9. World High Protein Vegetables Production Market Share by Region (2027-2032)

Table 10. World High Protein Vegetables Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World High Protein Vegetables Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. High Protein Vegetables Major Market Trends

Table 13. World High Protein Vegetables Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World High Protein Vegetables Consumption by Region (2021-2026) & (Kilotons)

Table 15. World High Protein Vegetables Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World High Protein Vegetables Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High Protein Vegetables Producers in 2025

Table 18. World High Protein Vegetables Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key High Protein Vegetables Producers in 2025

Table 20. World High Protein Vegetables Average Price by Manufacturer (2021-2026) &

(US\$/Ton)

Table 21. Global High Protein Vegetables Company Evaluation Quadrant

Table 22. World High Protein Vegetables Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High Protein Vegetables Production Site of Key Manufacturer

Table 24. High Protein Vegetables Market: Company Product Type Footprint

Table 25. High Protein Vegetables Market: Company Product Application Footprint

Table 26. High Protein Vegetables Competitive Factors

Table 27. High Protein Vegetables New Entrant and Capacity Expansion Plans

Table 28. High Protein Vegetables Mergers & Acquisitions Activity

Table 29. United States VS China High Protein Vegetables Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High Protein Vegetables Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China High Protein Vegetables Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based High Protein Vegetables Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High Protein Vegetables Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High Protein Vegetables Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High Protein Vegetables Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers High Protein Vegetables Production Market Share (2021-2026)

Table 37. China Based High Protein Vegetables Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High Protein Vegetables Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High Protein Vegetables Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High Protein Vegetables Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers High Protein Vegetables Production Market Share (2021-2026)

Table 42. Rest of World Based High Protein Vegetables Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High Protein Vegetables Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High Protein Vegetables Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High Protein Vegetables Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers High Protein Vegetables Production Market Share (2021-2026)

Table 47. World High Protein Vegetables Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High Protein Vegetables Production by Type (2021-2026) & (Kilotons)

Table 49. World High Protein Vegetables Production by Type (2027-2032) & (Kilotons)

Table 50. World High Protein Vegetables Production Value by Type (2021-2026) & (USD Million)

Table 51. World High Protein Vegetables Production Value by Type (2027-2032) & (USD Million)

Table 52. World High Protein Vegetables Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World High Protein Vegetables Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World High Protein Vegetables Production Value by Processing Depth, (USD Million), 2021 & 2025 & 2032

Table 55. World High Protein Vegetables Production by Processing Depth (2021-2026) & (Kilotons)

Table 56. World High Protein Vegetables Production by Processing Depth (2027-2032) & (Kilotons)

Table 57. World High Protein Vegetables Production Value by Processing Depth (2021-2026) & (USD Million)

Table 58. World High Protein Vegetables Production Value by Processing Depth (2027-2032) & (USD Million)

Table 59. World High Protein Vegetables Average Price by Processing Depth (2021-2026) & (US\$/Ton)

Table 60. World High Protein Vegetables Average Price by Processing Depth (2027-2032) & (US\$/Ton)

Table 61. World High Protein Vegetables Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World High Protein Vegetables Production by Application (2021-2026) & (Kilotons)

Table 63. World High Protein Vegetables Production by Application (2027-2032) &

(Kilotons)

Table 64. World High Protein Vegetables Production Value by Application (2021-2026) & (USD Million)

Table 65. World High Protein Vegetables Production Value by Application (2027-2032) & (USD Million)

Table 66. World High Protein Vegetables Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World High Protein Vegetables Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. Benson Hill, Inc. (NYSE: BHIL, Missouri USA) Basic Information, Manufacturing Base and Competitors

Table 69. Benson Hill, Inc. (NYSE: BHIL, Missouri USA) Major Business

Table 70. Benson Hill, Inc. (NYSE: BHIL, Missouri USA) High Protein Vegetables Product and Services

Table 71. Benson Hill, Inc. (NYSE: BHIL, Missouri USA) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Benson Hill, Inc. (NYSE: BHIL, Missouri USA) Recent Developments/Updates

Table 73. Benson Hill, Inc. (NYSE: BHIL, Missouri USA) Competitive Strengths & Weaknesses

Table 74. Equinom Ltd. (Unlisted, Kfar Saba Israel) Basic Information, Manufacturing Base and Competitors

Table 75. Equinom Ltd. (Unlisted, Kfar Saba Israel) Major Business

Table 76. Equinom Ltd. (Unlisted, Kfar Saba Israel) High Protein Vegetables Product and Services

Table 77. Equinom Ltd. (Unlisted, Kfar Saba Israel) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Equinom Ltd. (Unlisted, Kfar Saba Israel) Recent Developments/Updates

Table 79. Equinom Ltd. (Unlisted, Kfar Saba Israel) Competitive Strengths & Weaknesses

Table 80. Archer-Daniels-Midland Company (NYSE: ADM, Illinois USA) Basic Information, Manufacturing Base and Competitors

Table 81. Archer-Daniels-Midland Company (NYSE: ADM, Illinois USA) Major Business

Table 82. Archer-Daniels-Midland Company (NYSE: ADM, Illinois USA) High Protein Vegetables Product and Services

Table 83. Archer-Daniels-Midland Company (NYSE: ADM, Illinois USA) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Archer-Daniels-Midland Company (NYSE: ADM, Illinois USA) Recent Developments/Updates

Table 85. Archer-Daniels-Midland Company (NYSE: ADM, Illinois USA) Competitive Strengths & Weaknesses

Table 86. Syngenta Group (Unlisted, Beijing China) Basic Information, Manufacturing Base and Competitors

Table 87. Syngenta Group (Unlisted, Beijing China) Major Business

Table 88. Syngenta Group (Unlisted, Beijing China) High Protein Vegetables Product and Services

Table 89. Syngenta Group (Unlisted, Beijing China) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Syngenta Group (Unlisted, Beijing China) Recent Developments/Updates

Table 91. Syngenta Group (Unlisted, Beijing China) Competitive Strengths & Weaknesses

Table 92. Dole Plc (NYSE: DOLE, Dublin Ireland) Basic Information, Manufacturing Base and Competitors

Table 93. Dole Plc (NYSE: DOLE, Dublin Ireland) Major Business

Table 94. Dole Plc (NYSE: DOLE, Dublin Ireland) High Protein Vegetables Product and Services

Table 95. Dole Plc (NYSE: DOLE, Dublin Ireland) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Dole Plc (NYSE: DOLE, Dublin Ireland) Recent Developments/Updates

Table 97. Dole Plc (NYSE: DOLE, Dublin Ireland) Competitive Strengths & Weaknesses

Table 98. Fresh Del Monte Produce Inc. (NYSE: FDP, Florida USA) Basic Information, Manufacturing Base and Competitors

Table 99. Fresh Del Monte Produce Inc. (NYSE: FDP, Florida USA) Major Business

Table 100. Fresh Del Monte Produce Inc. (NYSE: FDP, Florida USA) High Protein Vegetables Product and Services

Table 101. Fresh Del Monte Produce Inc. (NYSE: FDP, Florida USA) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Fresh Del Monte Produce Inc. (NYSE: FDP, Florida USA) Recent Developments/Updates

Table 103. Fresh Del Monte Produce Inc. (NYSE: FDP, Florida USA) Competitive Strengths & Weaknesses

Table 104. Grimmway Farms, Inc. (Unlisted, California USA) Basic Information, Manufacturing Base and Competitors

- Table 105. Grimmway Farms, Inc. (Unlisted, California USA) Major Business
- Table 106. Grimmway Farms, Inc. (Unlisted, California USA) High Protein Vegetables Product and Services
- Table 107. Grimmway Farms, Inc. (Unlisted, California USA) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Grimmway Farms, Inc. (Unlisted, California USA) Recent Developments/Updates
- Table 109. Grimmway Farms, Inc. (Unlisted, California USA) Competitive Strengths & Weaknesses
- Table 110. Mitsui & Co., Ltd. (TYO: 8031, Tokyo Japan) Basic Information, Manufacturing Base and Competitors
- Table 111. Mitsui & Co., Ltd. (TYO: 8031, Tokyo Japan) Major Business
- Table 112. Mitsui & Co., Ltd. (TYO: 8031, Tokyo Japan) High Protein Vegetables Product and Services
- Table 113. Mitsui & Co., Ltd. (TYO: 8031, Tokyo Japan) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 114. Mitsui & Co., Ltd. (TYO: 8031, Tokyo Japan) Recent Developments/Updates
- Table 115. Mitsui & Co., Ltd. (TYO: 8031, Tokyo Japan) Competitive Strengths & Weaknesses
- Table 116. Shanghai Xuerong Biotechnology Co., Ltd. (SZSE: 300511, Shanghai China) Basic Information, Manufacturing Base and Competitors
- Table 117. Shanghai Xuerong Biotechnology Co., Ltd. (SZSE: 300511, Shanghai China) Major Business
- Table 118. Shanghai Xuerong Biotechnology Co., Ltd. (SZSE: 300511, Shanghai China) High Protein Vegetables Product and Services
- Table 119. Shanghai Xuerong Biotechnology Co., Ltd. (SZSE: 300511, Shanghai China) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 120. Shanghai Xuerong Biotechnology Co., Ltd. (SZSE: 300511, Shanghai China) Recent Developments/Updates
- Table 121. Shanghai Xuerong Biotechnology Co., Ltd. (SZSE: 300511, Shanghai China) Competitive Strengths & Weaknesses
- Table 122. Jiangsu Hualu Biological Technology Co., Ltd. (SZSE: 300970, Jiangsu China) Basic Information, Manufacturing Base and Competitors
- Table 123. Jiangsu Hualu Biological Technology Co., Ltd. (SZSE: 300970, Jiangsu China) Major Business
- Table 124. Jiangsu Hualu Biological Technology Co., Ltd. (SZSE: 300970, Jiangsu

China) High Protein Vegetables Product and Services

Table 125. Jiangsu Hualu Biological Technology Co., Ltd. (SZSE: 300970, Jiangsu China) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Jiangsu Hualu Biological Technology Co., Ltd. (SZSE: 300970, Jiangsu China) Recent Developments/Updates

Table 127. Jiangsu Hualu Biological Technology Co., Ltd. (SZSE: 300970, Jiangsu China) Competitive Strengths & Weaknesses

Table 128. Monterey Mushrooms, Inc. (Unlisted, California USA) Basic Information, Manufacturing Base and Competitors

Table 129. Monterey Mushrooms, Inc. (Unlisted, California USA) Major Business

Table 130. Monterey Mushrooms, Inc. (Unlisted, California USA) High Protein Vegetables Product and Services

Table 131. Monterey Mushrooms, Inc. (Unlisted, California USA) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Monterey Mushrooms, Inc. (Unlisted, California USA) Recent Developments/Updates

Table 133. Monterey Mushrooms, Inc. (Unlisted, California USA) Competitive Strengths & Weaknesses

Table 134. Giorgio Fresh Co. (Unlisted, Pennsylvania USA) Basic Information, Manufacturing Base and Competitors

Table 135. Giorgio Fresh Co. (Unlisted, Pennsylvania USA) Major Business

Table 136. Giorgio Fresh Co. (Unlisted, Pennsylvania USA) High Protein Vegetables Product and Services

Table 137. Giorgio Fresh Co. (Unlisted, Pennsylvania USA) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Giorgio Fresh Co. (Unlisted, Pennsylvania USA) Recent Developments/Updates

Table 139. Giorgio Fresh Co. (Unlisted, Pennsylvania USA) Competitive Strengths & Weaknesses

Table 140. Scelta Mushrooms BV (Unlisted, Horst Netherlands) Basic Information, Manufacturing Base and Competitors

Table 141. Scelta Mushrooms BV (Unlisted, Horst Netherlands) Major Business

Table 142. Scelta Mushrooms BV (Unlisted, Horst Netherlands) High Protein Vegetables Product and Services

Table 143. Scelta Mushrooms BV (Unlisted, Horst Netherlands) High Protein Vegetables Production (Kilotons), Price (US\$/Ton), Production Value (USD Million),

Gross Margin and Market Share (2021-2026)

Table 144. Scelta Mushrooms BV (Unlisted, Horst Netherlands) Recent Developments/Updates

Table 145. Scelta Mushrooms BV (Unlisted, Horst Netherlands) Competitive Strengths & Weaknesses

Table 146. Global Key Players of High Protein Vegetables Upstream (Raw Materials)

Table 147. Global High Protein Vegetables Typical Customers

Table 148. High Protein Vegetables Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. High Protein Vegetables Picture
- Figure 2. World High Protein Vegetables Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World High Protein Vegetables Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World High Protein Vegetables Production (2021-2032) & (Kilotons)
- Figure 5. World High Protein Vegetables Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World High Protein Vegetables Production Value Market Share by Region (2021-2032)
- Figure 7. World High Protein Vegetables Production Market Share by Region (2021-2032)
- Figure 8. North America High Protein Vegetables Production (2021-2032) & (Kilotons)
- Figure 9. Europe High Protein Vegetables Production (2021-2032) & (Kilotons)
- Figure 10. China High Protein Vegetables Production (2021-2032) & (Kilotons)
- Figure 11. Japan High Protein Vegetables Production (2021-2032) & (Kilotons)
- Figure 12. South America High Protein Vegetables Production (2021-2032) & (Kilotons)
- Figure 13. High Protein Vegetables Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World High Protein Vegetables Consumption (2021-2032) & (Kilotons)
- Figure 16. World High Protein Vegetables Consumption Market Share by Region (2021-2032)
- Figure 17. United States High Protein Vegetables Consumption (2021-2032) & (Kilotons)
- Figure 18. China High Protein Vegetables Consumption (2021-2032) & (Kilotons)
- Figure 19. Europe High Protein Vegetables Consumption (2021-2032) & (Kilotons)
- Figure 20. Japan High Protein Vegetables Consumption (2021-2032) & (Kilotons)
- Figure 21. South Korea High Protein Vegetables Consumption (2021-2032) & (Kilotons)
- Figure 22. ASEAN High Protein Vegetables Consumption (2021-2032) & (Kilotons)
- Figure 23. India High Protein Vegetables Consumption (2021-2032) & (Kilotons)
- Figure 24. Producer Shipments of High Protein Vegetables by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for High Protein Vegetables Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for High Protein Vegetables Markets in 2025

Figure 27. United States VS China: High Protein Vegetables Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: High Protein Vegetables Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: High Protein Vegetables Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers High Protein Vegetables Production Market Share 2025

Figure 31. China Based Manufacturers High Protein Vegetables Production Market Share 2025

Figure 32. Rest of World Based Manufacturers High Protein Vegetables Production Market Share 2025

Figure 33. World High Protein Vegetables Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World High Protein Vegetables Production Value Market Share by Type in 2025

Figure 35. Leafy Greens

Figure 36. Flower Vegetables

Figure 37. Stem Vegetables

Figure 38. Mushrooms

Figure 39. World High Protein Vegetables Production Market Share by Type (2021-2032)

Figure 40. World High Protein Vegetables Production Value Market Share by Type (2021-2032)

Figure 41. World High Protein Vegetables Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. World High Protein Vegetables Production Value by Processing Depth, (USD Million), 2021 & 2025 & 2032

Figure 43. World High Protein Vegetables Production Value Market Share by Processing Depth in 2025

Figure 44. Fresh High-Protein Vegetables

Figure 45. Processed High-Protein Vegetable

Figure 46. World High Protein Vegetables Production Market Share by Processing Depth (2021-2032)

Figure 47. World High Protein Vegetables Production Value Market Share by Processing Depth (2021-2032)

Figure 48. World High Protein Vegetables Average Price by Processing Depth (2021-2032) & (US\$/Ton)

Figure 49. World High Protein Vegetables Production Value by Application, (USD

Million), 2021 & 2025 & 2032

Figure 50. World High Protein Vegetables Production Value Market Share by Application in 2025

Figure 51. Home Cooking

Figure 52. Food Manufacturing

Figure 53. Pet Nutrition

Figure 54. Other

Figure 55. World High Protein Vegetables Production Market Share by Application (2021-2032)

Figure 56. World High Protein Vegetables Production Value Market Share by Application (2021-2032)

Figure 57. World High Protein Vegetables Average Price by Application (2021-2032) & (US\$/Ton)

Figure 58. High Protein Vegetables Industry Chain

Figure 59. High Protein Vegetables Procurement Model

Figure 60. High Protein Vegetables Sales Model

Figure 61. High Protein Vegetables Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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