

Global Acoustic Wave Sensors in Biology Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Acoustic Wave Sensors in Biology market size is expected to reach \$ 2288 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

Acoustic wave sensors in biology are biosensing devices that utilize acoustic wave propagation or resonance changes on piezoelectric materials to detect biological interactions in real time. This category mainly includes quartz crystal microbalance (QCM/QCM-D), surface acoustic wave (SAW/SH-SAW), and bulk acoustic wave (BAW/FBAR) sensors used for label-free detection of biomolecules such as proteins, antibodies, nucleic acids, cells, and pathogens. From a value chain perspective, upstream includes piezoelectric materials, MEMS fabrication, RF electronics, microfluidics, and biochemical reagents; midstream involves sensor chip design, instrument development, and system integration; downstream demand comes from life science research, drug discovery, diagnostics, food safety, and environmental biology. In 2025, the average selling price is approximately US\$18,500 per unit, with global shipments reaching about 61,000 units. Industry gross margins typically range from 32% to 58%.

The market is evolving from traditional laboratory-based sensing toward more application-oriented biological platforms. Acoustic biosensors are increasingly optimized for immunoassays, nucleic acid detection, pathogen screening, and extracellular vesicle analysis, expanding beyond basic surface interaction studies.

Miniaturization and portability are major trends. Systems are becoming more compact and integrated, enabling point-of-care testing and decentralized biological analysis. At the same time, higher-frequency sensors are improving sensitivity, especially in liquid

environments.

Another key trend is multi-parameter sensing and system integration. Modern platforms combine mass sensing with viscoelastic or impedance measurements, providing more comprehensive characterization of biological interactions.

Future growth will be driven by the expansion of rapid diagnostics, biologics development, and the need for real-time, label-free detection technologies.

This report studies the global Acoustic Wave Sensors in Biology production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Acoustic Wave Sensors in Biology 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 Acoustic Wave Sensors in Biology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Acoustic Wave Sensors in Biology total production and demand, 2021-2032, (K Units)

Global Acoustic Wave Sensors in Biology total production value, 2021-2032, (USD Million)

Global Acoustic Wave Sensors in Biology production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Acoustic Wave Sensors in Biology consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Acoustic Wave Sensors in Biology domestic production, consumption, key domestic manufacturers and share

Global Acoustic Wave Sensors in Biology production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Acoustic Wave Sensors in Biology production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Acoustic Wave Sensors in Biology production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Acoustic Wave Sensors in Biology 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 Biolin Scientific (QSense), AWSensors, Attana, BioNavis, Semilab, Gamry Instruments, openQCM, Quartz Pro, MicroVacuum, SAW COMPONENTS Dresden, 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 Acoustic Wave Sensors in Biology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Acoustic Wave Sensors in Biology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Acoustic Wave Sensors in Biology Market, Segmentation by Type:

Quartz Crystal Microbalance (QCM) Sensor

Surface Acoustic Wave (SAW) Sensor

Global Acoustic Wave Sensors in Biology Market, Segmentation by Detection Mode:

Label-Free Detection

Real-Time Interaction Analysis

Endpoint Bioassay

Portable / POCT Detection

Global Acoustic Wave Sensors in Biology Market, Segmentation by Platform Format:

Benchtop System

Portable System

Global Acoustic Wave Sensors in Biology Market, Segmentation by Application:

Life Science Research

Clinical & Diagnostics

Pharmaceutical & Biotech

Food & Environmental Testing

Companies Profiled:

Biolin Scientific (QSense)

AWSensors

Attana

BioNavis

Semilab

Gamry Instruments

openQCM

Quartz Pro

MicroVacuum

SAW COMPONENTS Dresden

tstbio

BioSAW

NDK

KYOCERA

TDK

Qorvo

Murata

Vectron

Rakon

Abracon

CSIMC

SungThai

Microbalance Tech

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Acoustic Wave Sensors in Biology Demand (2021-2032)
- 2.2 World Acoustic Wave Sensors in Biology Consumption by Region
 - 2.2.1 World Acoustic Wave Sensors in Biology Consumption by Region (2021-2026)
 - 2.2.2 World Acoustic Wave Sensors in Biology Consumption Forecast by Region (2027-2032)
- 2.3 United States Acoustic Wave Sensors in Biology Consumption (2021-2032)
- 2.4 China Acoustic Wave Sensors in Biology Consumption (2021-2032)
- 2.5 Europe Acoustic Wave Sensors in Biology Consumption (2021-2032)
- 2.6 Japan Acoustic Wave Sensors in Biology Consumption (2021-2032)
- 2.7 South Korea Acoustic Wave Sensors in Biology Consumption (2021-2032)
- 2.8 ASEAN Acoustic Wave Sensors in Biology Consumption (2021-2032)
- 2.9 India Acoustic Wave Sensors in Biology Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Acoustic Wave Sensors in Biology Production Value by Manufacturer (2021-2026)
- 3.2 World Acoustic Wave Sensors in Biology Production by Manufacturer (2021-2026)
- 3.3 World Acoustic Wave Sensors in Biology Average Price by Manufacturer (2021-2026)
- 3.4 Acoustic Wave Sensors in Biology Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Acoustic Wave Sensors in Biology Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Acoustic Wave Sensors in Biology in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Acoustic Wave Sensors in Biology in 2025
- 3.6 Acoustic Wave Sensors in Biology Market: Overall Company Footprint Analysis
 - 3.6.1 Acoustic Wave Sensors in Biology Market: Region Footprint
 - 3.6.2 Acoustic Wave Sensors in Biology Market: Company Product Type Footprint
 - 3.6.3 Acoustic Wave Sensors in Biology 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: Acoustic Wave Sensors in Biology Production Value Comparison
 - 4.1.1 United States VS China: Acoustic Wave Sensors in Biology Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Acoustic Wave Sensors in Biology Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Acoustic Wave Sensors in Biology Production Comparison
 - 4.2.1 United States VS China: Acoustic Wave Sensors in Biology Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Acoustic Wave Sensors in Biology Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Acoustic Wave Sensors in Biology Consumption Comparison

- 4.3.1 United States VS China: Acoustic Wave Sensors in Biology Consumption Comparison (2021 & 2025 & 2032)
- 4.3.2 United States VS China: Acoustic Wave Sensors in Biology Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Acoustic Wave Sensors in Biology Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Acoustic Wave Sensors in Biology Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Acoustic Wave Sensors in Biology Production Value (2021-2026)
 - 4.4.3 United States Based Manufacturers Acoustic Wave Sensors in Biology Production (2021-2026)
- 4.5 China Based Acoustic Wave Sensors in Biology Manufacturers and Market Share
 - 4.5.1 China Based Acoustic Wave Sensors in Biology Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Acoustic Wave Sensors in Biology Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Acoustic Wave Sensors in Biology Production (2021-2026)
- 4.6 Rest of World Based Acoustic Wave Sensors in Biology Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Acoustic Wave Sensors in Biology Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Acoustic Wave Sensors in Biology Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Acoustic Wave Sensors in Biology Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Acoustic Wave Sensors in Biology Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Quartz Crystal Microbalance (QCM) Sensor
 - 5.2.2 Surface Acoustic Wave (SAW) Sensor
- 5.3 Market Segment by Type
 - 5.3.1 World Acoustic Wave Sensors in Biology Production by Type (2021-2032)
 - 5.3.2 World Acoustic Wave Sensors in Biology Production Value by Type (2021-2032)
 - 5.3.3 World Acoustic Wave Sensors in Biology Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DETECTION MODE

6.1 World Acoustic Wave Sensors in Biology Market Size Overview by Detection Mode:
2021 VS 2025 VS 2032

6.2 Segment Introduction by Detection Mode

6.2.1 Label-Free Detection

6.2.2 Real-Time Interaction Analysis

6.2.3 Endpoint Bioassay

6.2.4 Portable / POCT Detection

6.3 Market Segment by Detection Mode

6.3.1 World Acoustic Wave Sensors in Biology Production by Detection Mode
(2021-2032)

6.3.2 World Acoustic Wave Sensors in Biology Production Value by Detection Mode
(2021-2032)

6.3.3 World Acoustic Wave Sensors in Biology Average Price by Detection Mode
(2021-2032)

7 MARKET ANALYSIS BY PLATFORM FORMAT

7.1 World Acoustic Wave Sensors in Biology Market Size Overview by Platform Format:
2021 VS 2025 VS 2032

7.2 Segment Introduction by Platform Format

7.2.1 Benchtop System

7.2.2 Portable System

7.3 Market Segment by Platform Format

7.3.1 World Acoustic Wave Sensors in Biology Production by Platform Format
(2021-2032)

7.3.2 World Acoustic Wave Sensors in Biology Production Value by Platform Format
(2021-2032)

7.3.3 World Acoustic Wave Sensors in Biology Average Price by Platform Format
(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Acoustic Wave Sensors in Biology Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Life Science Research

8.2.2 Clinical & Diagnostics

8.2.3 Pharmaceutical & Biotech

8.2.4 Food & Environmental Testing

8.3 Market Segment by Application

8.3.1 World Acoustic Wave Sensors in Biology Production by Application (2021-2032)

8.3.2 World Acoustic Wave Sensors in Biology Production Value by Application (2021-2032)

8.3.3 World Acoustic Wave Sensors in Biology Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Biolin Scientific (QSense)

9.1.1 Biolin Scientific (QSense) Details

9.1.2 Biolin Scientific (QSense) Major Business

9.1.3 Biolin Scientific (QSense) Acoustic Wave Sensors in Biology Product and Services

9.1.4 Biolin Scientific (QSense) Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Biolin Scientific (QSense) Recent Developments/Updates

9.1.6 Biolin Scientific (QSense) Competitive Strengths & Weaknesses

9.2 AWSensors

9.2.1 AWSensors Details

9.2.2 AWSensors Major Business

9.2.3 AWSensors Acoustic Wave Sensors in Biology Product and Services

9.2.4 AWSensors Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 AWSensors Recent Developments/Updates

9.2.6 AWSensors Competitive Strengths & Weaknesses

9.3 Attana

9.3.1 Attana Details

9.3.2 Attana Major Business

9.3.3 Attana Acoustic Wave Sensors in Biology Product and Services

9.3.4 Attana Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Attana Recent Developments/Updates

9.3.6 Attana Competitive Strengths & Weaknesses

9.4 BioNavis

9.4.1 BioNavis Details

- 9.4.2 BioNavis Major Business
- 9.4.3 BioNavis Acoustic Wave Sensors in Biology Product and Services
- 9.4.4 BioNavis Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 BioNavis Recent Developments/Updates
- 9.4.6 BioNavis Competitive Strengths & Weaknesses
- 9.5 Semilab
 - 9.5.1 Semilab Details
 - 9.5.2 Semilab Major Business
 - 9.5.3 Semilab Acoustic Wave Sensors in Biology Product and Services
 - 9.5.4 Semilab Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Semilab Recent Developments/Updates
 - 9.5.6 Semilab Competitive Strengths & Weaknesses
- 9.6 Gamry Instruments
 - 9.6.1 Gamry Instruments Details
 - 9.6.2 Gamry Instruments Major Business
 - 9.6.3 Gamry Instruments Acoustic Wave Sensors in Biology Product and Services
 - 9.6.4 Gamry Instruments Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Gamry Instruments Recent Developments/Updates
 - 9.6.6 Gamry Instruments Competitive Strengths & Weaknesses
- 9.7 openQCM
 - 9.7.1 openQCM Details
 - 9.7.2 openQCM Major Business
 - 9.7.3 openQCM Acoustic Wave Sensors in Biology Product and Services
 - 9.7.4 openQCM Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 openQCM Recent Developments/Updates
 - 9.7.6 openQCM Competitive Strengths & Weaknesses
- 9.8 Quartz Pro
 - 9.8.1 Quartz Pro Details
 - 9.8.2 Quartz Pro Major Business
 - 9.8.3 Quartz Pro Acoustic Wave Sensors in Biology Product and Services
 - 9.8.4 Quartz Pro Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Quartz Pro Recent Developments/Updates
 - 9.8.6 Quartz Pro Competitive Strengths & Weaknesses
- 9.9 MicroVacuum

- 9.9.1 MicroVacuum Details
- 9.9.2 MicroVacuum Major Business
- 9.9.3 MicroVacuum Acoustic Wave Sensors in Biology Product and Services
- 9.9.4 MicroVacuum Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 MicroVacuum Recent Developments/Updates
- 9.9.6 MicroVacuum Competitive Strengths & Weaknesses
- 9.10 SAW COMPONENTS Dresden
- 9.10.1 SAW COMPONENTS Dresden Details
- 9.10.2 SAW COMPONENTS Dresden Major Business
- 9.10.3 SAW COMPONENTS Dresden Acoustic Wave Sensors in Biology Product and Services
- 9.10.4 SAW COMPONENTS Dresden Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 SAW COMPONENTS Dresden Recent Developments/Updates
- 9.10.6 SAW COMPONENTS Dresden Competitive Strengths & Weaknesses
- 9.11 tstbio
- 9.11.1 tstbio Details
- 9.11.2 tstbio Major Business
- 9.11.3 tstbio Acoustic Wave Sensors in Biology Product and Services
- 9.11.4 tstbio Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 tstbio Recent Developments/Updates
- 9.11.6 tstbio Competitive Strengths & Weaknesses
- 9.12 BioSAW
- 9.12.1 BioSAW Details
- 9.12.2 BioSAW Major Business
- 9.12.3 BioSAW Acoustic Wave Sensors in Biology Product and Services
- 9.12.4 BioSAW Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 BioSAW Recent Developments/Updates
- 9.12.6 BioSAW Competitive Strengths & Weaknesses
- 9.13 NDK
- 9.13.1 NDK Details
- 9.13.2 NDK Major Business
- 9.13.3 NDK Acoustic Wave Sensors in Biology Product and Services
- 9.13.4 NDK Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 NDK Recent Developments/Updates

9.13.6 NDK Competitive Strengths & Weaknesses

9.14 KYOCERA

9.14.1 KYOCERA Details

9.14.2 KYOCERA Major Business

9.14.3 KYOCERA Acoustic Wave Sensors in Biology Product and Services

9.14.4 KYOCERA Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 KYOCERA Recent Developments/Updates

9.14.6 KYOCERA Competitive Strengths & Weaknesses

9.15 TDK

9.15.1 TDK Details

9.15.2 TDK Major Business

9.15.3 TDK Acoustic Wave Sensors in Biology Product and Services

9.15.4 TDK Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 TDK Recent Developments/Updates

9.15.6 TDK Competitive Strengths & Weaknesses

9.16 Qorvo

9.16.1 Qorvo Details

9.16.2 Qorvo Major Business

9.16.3 Qorvo Acoustic Wave Sensors in Biology Product and Services

9.16.4 Qorvo Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Qorvo Recent Developments/Updates

9.16.6 Qorvo Competitive Strengths & Weaknesses

9.17 Murata

9.17.1 Murata Details

9.17.2 Murata Major Business

9.17.3 Murata Acoustic Wave Sensors in Biology Product and Services

9.17.4 Murata Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Murata Recent Developments/Updates

9.17.6 Murata Competitive Strengths & Weaknesses

9.18 Vectron

9.18.1 Vectron Details

9.18.2 Vectron Major Business

9.18.3 Vectron Acoustic Wave Sensors in Biology Product and Services

9.18.4 Vectron Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.18.5 Vectron Recent Developments/Updates
- 9.18.6 Vectron Competitive Strengths & Weaknesses
- 9.19 Rakon
 - 9.19.1 Rakon Details
 - 9.19.2 Rakon Major Business
 - 9.19.3 Rakon Acoustic Wave Sensors in Biology Product and Services
 - 9.19.4 Rakon Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Rakon Recent Developments/Updates
 - 9.19.6 Rakon Competitive Strengths & Weaknesses
- 9.20 Abracon
 - 9.20.1 Abracon Details
 - 9.20.2 Abracon Major Business
 - 9.20.3 Abracon Acoustic Wave Sensors in Biology Product and Services
 - 9.20.4 Abracon Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Abracon Recent Developments/Updates
 - 9.20.6 Abracon Competitive Strengths & Weaknesses
- 9.21 CSIMC
 - 9.21.1 CSIMC Details
 - 9.21.2 CSIMC Major Business
 - 9.21.3 CSIMC Acoustic Wave Sensors in Biology Product and Services
 - 9.21.4 CSIMC Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 CSIMC Recent Developments/Updates
 - 9.21.6 CSIMC Competitive Strengths & Weaknesses
- 9.22 SungThai
 - 9.22.1 SungThai Details
 - 9.22.2 SungThai Major Business
 - 9.22.3 SungThai Acoustic Wave Sensors in Biology Product and Services
 - 9.22.4 SungThai Acoustic Wave Sensors in Biology Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.22.5 SungThai Recent Developments/Updates
 - 9.22.6 SungThai Competitive Strengths & Weaknesses
- 9.23 Microbalance Tech
 - 9.23.1 Microbalance Tech Details
 - 9.23.2 Microbalance Tech Major Business
 - 9.23.3 Microbalance Tech Acoustic Wave Sensors in Biology Product and Services
 - 9.23.4 Microbalance Tech Acoustic Wave Sensors in Biology Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.23.5 Microbalance Tech Recent Developments/Updates

9.23.6 Microbalance Tech Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Acoustic Wave Sensors in Biology Industry Chain

10.2 Acoustic Wave Sensors in Biology Upstream Analysis

10.2.1 Acoustic Wave Sensors in Biology Core Raw Materials

10.2.2 Main Manufacturers of Acoustic Wave Sensors in Biology Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Acoustic Wave Sensors in Biology Production Mode

10.6 Acoustic Wave Sensors in Biology Procurement Model

10.7 Acoustic Wave Sensors in Biology Industry Sales Model and Sales Channels

10.7.1 Acoustic Wave Sensors in Biology Sales Model

10.7.2 Acoustic Wave Sensors in Biology Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Acoustic Wave Sensors in Biology Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Acoustic Wave Sensors in Biology Production Value by Region (2021-2026) & (USD Million)

Table 3. World Acoustic Wave Sensors in Biology Production Value by Region (2027-2032) & (USD Million)

Table 4. World Acoustic Wave Sensors in Biology Production Value Market Share by Region (2021-2026)

Table 5. World Acoustic Wave Sensors in Biology Production Value Market Share by Region (2027-2032)

Table 6. World Acoustic Wave Sensors in Biology Production by Region (2021-2026) & (K Units)

Table 7. World Acoustic Wave Sensors in Biology Production by Region (2027-2032) & (K Units)

Table 8. World Acoustic Wave Sensors in Biology Production Market Share by Region (2021-2026)

Table 9. World Acoustic Wave Sensors in Biology Production Market Share by Region (2027-2032)

Table 10. World Acoustic Wave Sensors in Biology Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Acoustic Wave Sensors in Biology Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Acoustic Wave Sensors in Biology Major Market Trends

Table 13. World Acoustic Wave Sensors in Biology Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Acoustic Wave Sensors in Biology Consumption by Region (2021-2026) & (K Units)

Table 15. World Acoustic Wave Sensors in Biology Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Acoustic Wave Sensors in Biology Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Acoustic Wave Sensors in Biology Producers in 2025

Table 18. World Acoustic Wave Sensors in Biology Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Acoustic Wave Sensors in Biology Producers in 2025

Table 20. World Acoustic Wave Sensors in Biology Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Acoustic Wave Sensors in Biology Company Evaluation Quadrant

Table 22. World Acoustic Wave Sensors in Biology Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Acoustic Wave Sensors in Biology Production Site of Key Manufacturer

Table 24. Acoustic Wave Sensors in Biology Market: Company Product Type Footprint

Table 25. Acoustic Wave Sensors in Biology Market: Company Product Application Footprint

Table 26. Acoustic Wave Sensors in Biology Competitive Factors

Table 27. Acoustic Wave Sensors in Biology New Entrant and Capacity Expansion Plans

Table 28. Acoustic Wave Sensors in Biology Mergers & Acquisitions Activity

Table 29. United States VS China Acoustic Wave Sensors in Biology Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Acoustic Wave Sensors in Biology Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Acoustic Wave Sensors in Biology Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Acoustic Wave Sensors in Biology Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Acoustic Wave Sensors in Biology Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Acoustic Wave Sensors in Biology Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Acoustic Wave Sensors in Biology Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Acoustic Wave Sensors in Biology Production Market Share (2021-2026)

Table 37. China Based Acoustic Wave Sensors in Biology Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Acoustic Wave Sensors in Biology Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Acoustic Wave Sensors in Biology Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Acoustic Wave Sensors in Biology Production,

(2021-2026) & (K Units)

Table 41. China Based Manufacturers Acoustic Wave Sensors in Biology Production Market Share (2021-2026)

Table 42. Rest of World Based Acoustic Wave Sensors in Biology Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Acoustic Wave Sensors in Biology Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Acoustic Wave Sensors in Biology Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Acoustic Wave Sensors in Biology Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Acoustic Wave Sensors in Biology Production Market Share (2021-2026)

Table 47. World Acoustic Wave Sensors in Biology Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Acoustic Wave Sensors in Biology Production by Type (2021-2026) & (K Units)

Table 49. World Acoustic Wave Sensors in Biology Production by Type (2027-2032) & (K Units)

Table 50. World Acoustic Wave Sensors in Biology Production Value by Type (2021-2026) & (USD Million)

Table 51. World Acoustic Wave Sensors in Biology Production Value by Type (2027-2032) & (USD Million)

Table 52. World Acoustic Wave Sensors in Biology Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Acoustic Wave Sensors in Biology Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Acoustic Wave Sensors in Biology Production Value by Detection Mode, (USD Million), 2021 & 2025 & 2032

Table 55. World Acoustic Wave Sensors in Biology Production by Detection Mode (2021-2026) & (K Units)

Table 56. World Acoustic Wave Sensors in Biology Production by Detection Mode (2027-2032) & (K Units)

Table 57. World Acoustic Wave Sensors in Biology Production Value by Detection Mode (2021-2026) & (USD Million)

Table 58. World Acoustic Wave Sensors in Biology Production Value by Detection Mode (2027-2032) & (USD Million)

Table 59. World Acoustic Wave Sensors in Biology Average Price by Detection Mode (2021-2026) & (US\$/Unit)

Table 60. World Acoustic Wave Sensors in Biology Average Price by Detection Mode (2027-2032) & (US\$/Unit)

Table 61. World Acoustic Wave Sensors in Biology Production Value by Platform Format, (USD Million), 2021 & 2025 & 2032

Table 62. World Acoustic Wave Sensors in Biology Production by Platform Format (2021-2026) & (K Units)

Table 63. World Acoustic Wave Sensors in Biology Production by Platform Format (2027-2032) & (K Units)

Table 64. World Acoustic Wave Sensors in Biology Production Value by Platform Format (2021-2026) & (USD Million)

Table 65. World Acoustic Wave Sensors in Biology Production Value by Platform Format (2027-2032) & (USD Million)

Table 66. World Acoustic Wave Sensors in Biology Average Price by Platform Format (2021-2026) & (US\$/Unit)

Table 67. World Acoustic Wave Sensors in Biology Average Price by Platform Format (2027-2032) & (US\$/Unit)

Table 68. World Acoustic Wave Sensors in Biology Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Acoustic Wave Sensors in Biology Production by Application (2021-2026) & (K Units)

Table 70. World Acoustic Wave Sensors in Biology Production by Application (2027-2032) & (K Units)

Table 71. World Acoustic Wave Sensors in Biology Production Value by Application (2021-2026) & (USD Million)

Table 72. World Acoustic Wave Sensors in Biology Production Value by Application (2027-2032) & (USD Million)

Table 73. World Acoustic Wave Sensors in Biology Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Acoustic Wave Sensors in Biology Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Biolin Scientific (QSense) Basic Information, Manufacturing Base and Competitors

Table 76. Biolin Scientific (QSense) Major Business

Table 77. Biolin Scientific (QSense) Acoustic Wave Sensors in Biology Product and Services

Table 78. Biolin Scientific (QSense) Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Biolin Scientific (QSense) Recent Developments/Updates

Table 80. Biolin Scientific (QSense) Competitive Strengths & Weaknesses
Table 81. AWSensors Basic Information, Manufacturing Base and Competitors
Table 82. AWSensors Major Business
Table 83. AWSensors Acoustic Wave Sensors in Biology Product and Services
Table 84. AWSensors Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. AWSensors Recent Developments/Updates
Table 86. AWSensors Competitive Strengths & Weaknesses
Table 87. Attana Basic Information, Manufacturing Base and Competitors
Table 88. Attana Major Business
Table 89. Attana Acoustic Wave Sensors in Biology Product and Services
Table 90. Attana Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Attana Recent Developments/Updates
Table 92. Attana Competitive Strengths & Weaknesses
Table 93. BioNavis Basic Information, Manufacturing Base and Competitors
Table 94. BioNavis Major Business
Table 95. BioNavis Acoustic Wave Sensors in Biology Product and Services
Table 96. BioNavis Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. BioNavis Recent Developments/Updates
Table 98. BioNavis Competitive Strengths & Weaknesses
Table 99. Semilab Basic Information, Manufacturing Base and Competitors
Table 100. Semilab Major Business
Table 101. Semilab Acoustic Wave Sensors in Biology Product and Services
Table 102. Semilab Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Semilab Recent Developments/Updates
Table 104. Semilab Competitive Strengths & Weaknesses
Table 105. Gamry Instruments Basic Information, Manufacturing Base and Competitors
Table 106. Gamry Instruments Major Business
Table 107. Gamry Instruments Acoustic Wave Sensors in Biology Product and Services
Table 108. Gamry Instruments Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Gamry Instruments Recent Developments/Updates
Table 110. Gamry Instruments Competitive Strengths & Weaknesses
Table 111. openQCM Basic Information, Manufacturing Base and Competitors
Table 112. openQCM Major Business
Table 113. openQCM Acoustic Wave Sensors in Biology Product and Services
Table 114. openQCM Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. openQCM Recent Developments/Updates
Table 116. openQCM Competitive Strengths & Weaknesses
Table 117. Quartz Pro Basic Information, Manufacturing Base and Competitors
Table 118. Quartz Pro Major Business
Table 119. Quartz Pro Acoustic Wave Sensors in Biology Product and Services
Table 120. Quartz Pro Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Quartz Pro Recent Developments/Updates
Table 122. Quartz Pro Competitive Strengths & Weaknesses
Table 123. MicroVacuum Basic Information, Manufacturing Base and Competitors
Table 124. MicroVacuum Major Business
Table 125. MicroVacuum Acoustic Wave Sensors in Biology Product and Services
Table 126. MicroVacuum Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. MicroVacuum Recent Developments/Updates
Table 128. MicroVacuum Competitive Strengths & Weaknesses
Table 129. SAW COMPONENTS Dresden Basic Information, Manufacturing Base and Competitors
Table 130. SAW COMPONENTS Dresden Major Business
Table 131. SAW COMPONENTS Dresden Acoustic Wave Sensors in Biology Product and Services
Table 132. SAW COMPONENTS Dresden Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. SAW COMPONENTS Dresden Recent Developments/Updates
Table 134. SAW COMPONENTS Dresden Competitive Strengths & Weaknesses
Table 135. tstbio Basic Information, Manufacturing Base and Competitors
Table 136. tstbio Major Business
Table 137. tstbio Acoustic Wave Sensors in Biology Product and Services

Table 138. tstbio Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. tstbio Recent Developments/Updates

Table 140. tstbio Competitive Strengths & Weaknesses

Table 141. BioSAW Basic Information, Manufacturing Base and Competitors

Table 142. BioSAW Major Business

Table 143. BioSAW Acoustic Wave Sensors in Biology Product and Services

Table 144. BioSAW Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. BioSAW Recent Developments/Updates

Table 146. BioSAW Competitive Strengths & Weaknesses

Table 147. NDK Basic Information, Manufacturing Base and Competitors

Table 148. NDK Major Business

Table 149. NDK Acoustic Wave Sensors in Biology Product and Services

Table 150. NDK Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. NDK Recent Developments/Updates

Table 152. NDK Competitive Strengths & Weaknesses

Table 153. KYOCERA Basic Information, Manufacturing Base and Competitors

Table 154. KYOCERA Major Business

Table 155. KYOCERA Acoustic Wave Sensors in Biology Product and Services

Table 156. KYOCERA Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. KYOCERA Recent Developments/Updates

Table 158. KYOCERA Competitive Strengths & Weaknesses

Table 159. TDK Basic Information, Manufacturing Base and Competitors

Table 160. TDK Major Business

Table 161. TDK Acoustic Wave Sensors in Biology Product and Services

Table 162. TDK Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. TDK Recent Developments/Updates

Table 164. TDK Competitive Strengths & Weaknesses

Table 165. Qorvo Basic Information, Manufacturing Base and Competitors

Table 166. Qorvo Major Business

Table 167. Qorvo Acoustic Wave Sensors in Biology Product and Services
Table 168. Qorvo Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Qorvo Recent Developments/Updates
Table 170. Qorvo Competitive Strengths & Weaknesses
Table 171. Murata Basic Information, Manufacturing Base and Competitors
Table 172. Murata Major Business
Table 173. Murata Acoustic Wave Sensors in Biology Product and Services
Table 174. Murata Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Murata Recent Developments/Updates
Table 176. Murata Competitive Strengths & Weaknesses
Table 177. Vectron Basic Information, Manufacturing Base and Competitors
Table 178. Vectron Major Business
Table 179. Vectron Acoustic Wave Sensors in Biology Product and Services
Table 180. Vectron Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. Vectron Recent Developments/Updates
Table 182. Vectron Competitive Strengths & Weaknesses
Table 183. Rakon Basic Information, Manufacturing Base and Competitors
Table 184. Rakon Major Business
Table 185. Rakon Acoustic Wave Sensors in Biology Product and Services
Table 186. Rakon Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 187. Rakon Recent Developments/Updates
Table 188. Rakon Competitive Strengths & Weaknesses
Table 189. Abracon Basic Information, Manufacturing Base and Competitors
Table 190. Abracon Major Business
Table 191. Abracon Acoustic Wave Sensors in Biology Product and Services
Table 192. Abracon Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 193. Abracon Recent Developments/Updates
Table 194. Abracon Competitive Strengths & Weaknesses
Table 195. CSIMC Basic Information, Manufacturing Base and Competitors

Table 196. CSIMC Major Business

Table 197. CSIMC Acoustic Wave Sensors in Biology Product and Services

Table 198. CSIMC Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. CSIMC Recent Developments/Updates

Table 200. CSIMC Competitive Strengths & Weaknesses

Table 201. SungThai Basic Information, Manufacturing Base and Competitors

Table 202. SungThai Major Business

Table 203. SungThai Acoustic Wave Sensors in Biology Product and Services

Table 204. SungThai Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. SungThai Recent Developments/Updates

Table 206. SungThai Competitive Strengths & Weaknesses

Table 207. Microbalance Tech Basic Information, Manufacturing Base and Competitors

Table 208. Microbalance Tech Major Business

Table 209. Microbalance Tech Acoustic Wave Sensors in Biology Product and Services

Table 210. Microbalance Tech Acoustic Wave Sensors in Biology Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Microbalance Tech Recent Developments/Updates

Table 212. Microbalance Tech Competitive Strengths & Weaknesses

Table 213. Global Key Players of Acoustic Wave Sensors in Biology Upstream (Raw Materials)

Table 214. Global Acoustic Wave Sensors in Biology Typical Customers

Table 215. Acoustic Wave Sensors in Biology Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Acoustic Wave Sensors in Biology Picture

Figure 2. World Acoustic Wave Sensors in Biology Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Acoustic Wave Sensors in Biology Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Acoustic Wave Sensors in Biology Production (2021-2032) & (K Units)

Figure 5. World Acoustic Wave Sensors in Biology Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Acoustic Wave Sensors in Biology Production Value Market Share by Region (2021-2032)

Figure 7. World Acoustic Wave Sensors in Biology Production Market Share by Region (2021-2032)

Figure 8. North America Acoustic Wave Sensors in Biology Production (2021-2032) & (K Units)

Figure 9. Europe Acoustic Wave Sensors in Biology Production (2021-2032) & (K Units)

Figure 10. China Acoustic Wave Sensors in Biology Production (2021-2032) & (K Units)

Figure 11. Japan Acoustic Wave Sensors in Biology Production (2021-2032) & (K Units)

Figure 12. South Korea Acoustic Wave Sensors in Biology Production (2021-2032) & (K Units)

Figure 13. Taiwan Acoustic Wave Sensors in Biology Production (2021-2032) & (K Units)

Figure 14. Acoustic Wave Sensors in Biology Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Acoustic Wave Sensors in Biology Consumption (2021-2032) & (K Units)

Figure 17. World Acoustic Wave Sensors in Biology Consumption Market Share by Region (2021-2032)

Figure 18. United States Acoustic Wave Sensors in Biology Consumption (2021-2032) & (K Units)

Figure 19. China Acoustic Wave Sensors in Biology Consumption (2021-2032) & (K Units)

Figure 20. Europe Acoustic Wave Sensors in Biology Consumption (2021-2032) & (K Units)

Figure 21. Japan Acoustic Wave Sensors in Biology Consumption (2021-2032) & (K Units)

Figure 22. South Korea Acoustic Wave Sensors in Biology Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Acoustic Wave Sensors in Biology Consumption (2021-2032) & (K Units)

Figure 24. India Acoustic Wave Sensors in Biology Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Acoustic Wave Sensors in Biology by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Acoustic Wave Sensors in Biology Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Acoustic Wave Sensors in Biology Markets in 2025

Figure 28. United States VS China: Acoustic Wave Sensors in Biology Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Acoustic Wave Sensors in Biology Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Acoustic Wave Sensors in Biology Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Acoustic Wave Sensors in Biology Production Market Share 2025

Figure 32. China Based Manufacturers Acoustic Wave Sensors in Biology Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Acoustic Wave Sensors in Biology Production Market Share 2025

Figure 34. World Acoustic Wave Sensors in Biology Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Acoustic Wave Sensors in Biology Production Value Market Share by Type in 2025

Figure 36. Quartz Crystal Microbalance (QCM) Sensor

Figure 37. Surface Acoustic Wave (SAW) Sensor

Figure 38. World Acoustic Wave Sensors in Biology Production Market Share by Type (2021-2032)

Figure 39. World Acoustic Wave Sensors in Biology Production Value Market Share by Type (2021-2032)

Figure 40. World Acoustic Wave Sensors in Biology Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Acoustic Wave Sensors in Biology Production Value by Detection Mode, (USD Million), 2021 & 2025 & 2032

Figure 42. World Acoustic Wave Sensors in Biology Production Value Market Share by

Detection Mode in 2025

Figure 43. Label-Free Detection

Figure 44. Real-Time Interaction Analysis

Figure 45. Endpoint Bioassay

Figure 46. Portable / POCT Detection

Figure 47. World Acoustic Wave Sensors in Biology Production Market Share by Detection Mode (2021-2032)

Figure 48. World Acoustic Wave Sensors in Biology Production Value Market Share by Detection Mode (2021-2032)

Figure 49. World Acoustic Wave Sensors in Biology Average Price by Detection Mode (2021-2032) & (US\$/Unit)

Figure 50. World Acoustic Wave Sensors in Biology Production Value by Platform Format, (USD Million), 2021 & 2025 & 2032

Figure 51. World Acoustic Wave Sensors in Biology Production Value Market Share by Platform Format in 2025

Figure 52. Benchtop System

Figure 53. Portable System

Figure 54. World Acoustic Wave Sensors in Biology Production Market Share by Platform Format (2021-2032)

Figure 55. World Acoustic Wave Sensors in Biology Production Value Market Share by Platform Format (2021-2032)

Figure 56. World Acoustic Wave Sensors in Biology Average Price by Platform Format (2021-2032) & (US\$/Unit)

Figure 57. World Acoustic Wave Sensors in Biology Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Acoustic Wave Sensors in Biology Production Value Market Share by Application in 2025

Figure 59. Life Science Research

Figure 60. Clinical & Diagnostics

Figure 61. Pharmaceutical & Biotech

Figure 62. Food & Environmental Testing

Figure 63. World Acoustic Wave Sensors in Biology Production Market Share by Application (2021-2032)

Figure 64. World Acoustic Wave Sensors in Biology Production Value Market Share by Application (2021-2032)

Figure 65. World Acoustic Wave Sensors in Biology Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Acoustic Wave Sensors in Biology Industry Chain

Figure 67. Acoustic Wave Sensors in Biology Procurement Model

Figure 68. Acoustic Wave Sensors in Biology Sales Model

Figure 69. Acoustic Wave Sensors in Biology Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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