

Biosensors - Company Evaluation Report, 2025

Market Report | 2025-08-01 | 109 pages | MarketsandMarkets

AVAILABLE LICENSES:

- Single User \$2650.00
- Corporate License \$4250.00

Report description:

The Biosensors Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Biosensors. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 100 companies, of which the Top 19 Biosensors Companies were categorized and recognized as quadrant leaders.

Biosensors are semiconductor-based devices that identify and convert biological reactions into electrical signals using transducers. They function as analytical instruments, delivering either qualitative or quantitative data for detecting protein or nucleic acid targets. In recent years, biosensors have emerged as a crucial technology and are extensively applied in home diagnostics, research laboratories, biodefense, environmental monitoring, the food and beverage industry, and point-of-care (POC) diagnostic testing.

Biosensors are semiconductor instruments that sense biological reactions and utilize transducers to convert these reactions into electrical outputs. They operate by integrating a biological recognition component (bioreceptor) with a physicochemical transducer. The bioreceptor selectively binds to a specific biological analyte, and the transducer translates this interaction into a measurable signal-such as electrical current, optical shift, mass variation, or thermal change-which corresponds to the analyte's concentration. Typical bioreceptors include enzymes, antibodies, nucleic acids, living cells, or microorganisms. These devices serve as analytical tools for delivering qualitative or quantitative detection of protein or nucleic acid targets.

The 360 Quadrant maps the Biosensors companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Biosensors quadrant. The top criteria for product footprint evaluation included By COMPONENT (Bioreceptor Molecules, Biological Elements, Transducers), By TYPE (Sensor Patches, Embedded Devices), By PRODUCT (Wearable Biosensors, Non-wearable (POC) Biosensors), By TECHNOLOGY (Electrochemical Biosensors, Optical Biosensors, Piezoelectric Biosensors, Thermal Biosensors, Nanomechanical Biosensors), and By APPLICATION (POC, Home Diagnostics, Research Labs, Environmental Monitoring, Food & Beverages, Biodefense).

Key players in the Biosensors market include major global corporations and specialized innovators such as Abbott Laboratories, F. Hoffmann-La Roche Ltd, Medtronic, Bio-Rad Laboratories, Inc., DuPont, Biosensors International Group, Ltd., Cytiva, Dexcom, Inc., LifeScan IP Holdings, LLC, Masimo, Nova Biomedical, Universal Biosensors, Conductive Technologies, ACON Laboratories, EastPrint Incorporated, IST AG, LifeSignals, NeuroSky, and Pinnacle Technology. These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Top 3 Companies

Abbott Laboratories

Abbott Laboratories leads the market for continuous glucose monitoring (CGM) devices. Their pioneering FreeStyle Libre system has set a benchmark in the industry for accurate and efficient glucose monitoring. Abbott's emphasis on expanding its product portfolio through innovations and strong partnerships has significantly contributed to its leading market share and solidified its reputation as a dominant entity in biosensors, especially in the diabetes care segment.

F. Hoffmann-La Roche Ltd

Known for its substantial contributions to diagnostics, F. Hoffmann-La Roche Ltd excels in the biosensor market through its extensive product portfolio and strategic acquisitions aimed at expanding its market reach. Their focus on diagnostic care and continuous innovation positions them as a leader in the biosensor industry. Roche's market growth is fostered by its commitment to enhance its offerings through R&D and strategic partnerships.

Medtronic

Medtronic holds a strong position in the biosensors market with its focus on medical and surgical biosensor applications. The company's strategic initiatives, including FDA-approved devices and ongoing innovations, underscore its dedication to advancing healthcare solutions. Medtronic's significant market share is driven by its diverse product offerings and strategic collaborations aimed at expanding its capabilities and geographical presence.

Table of Contents:

1	INTRODUCTION	11
1.1	MARKET DEFINITION	11
1.2	INCLUSIONS AND EXCLUSIONS	11
1.3	STAKEHOLDERS	11
2	EXECUTIVE SUMMARY	12
3	MARKET OVERVIEW	16
3.1	INTRODUCTION	16
3.2	MARKET DYNAMICS	16
3.2.1	DRIVERS	17
3.2.1.1	Emergence of nanotechnology-based biosensors	17
3.2.1.2	Technological advancements in recent years	18
3.2.1.3	Increasing use of biosensors to monitor glucose levels in individuals with diabetes	18
3.2.1.4	Supportive government initiatives for diagnostics	19
3.2.2	RESTRAINTS	19
3.2.2.1	Reluctance to adopt new treatment practices	19
3.2.2.2	High cost of biosensor R&D	20
3.2.3	OPPORTUNITIES	20
3.2.3.1	Emerging markets in developing countries	20
3.2.3.2	Rising food and environmental monitoring applications	21
3.2.3.3	Growth opportunities in wearables	21
3.2.4	CHALLENGES	22
3.2.4.1	Regulatory barriers and long certification & approval cycles	22
3.3	VALUE CHAIN ANALYSIS	22
3.4	ECOSYSTEM ANALYSIS	24
3.5	TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	25
3.6	TECHNOLOGY ANALYSIS	26
3.6.1	KEY TECHNOLOGIES	26
3.6.1.1	Multiplexed Biosensors	26

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

3.6.2	COMPLEMENTARY TECHNOLOGIES	26
3.6.2.1	AI-Integrated Biosensing Platforms	26
3.6.3	ADJACENT TECHNOLOGIES	27
3.6.3.1	Drug Delivery Systems	27
3.7	IMPACT OF GEN AI/AI ON BIOSENSORS MARKET	27
3.8	PATENT ANALYSIS	27
?		
3.9	PORTER'S FIVE FORCES ANALYSIS	30
3.9.1	INTENSITY OF COMPETITIVE RIVALRY	31
3.9.2	THREAT OF SUBSTITUTES	31
3.9.3	BARGAINING POWER OF BUYERS	31
3.9.4	BARGAINING POWER OF SUPPLIERS	31
3.9.5	THREAT OF NEW ENTRANTS	31
3.10	KEY CONFERENCES AND EVENTS, 2025-2026	32
4	COMPETITIVE LANDSCAPE	34
4.1	OVERVIEW	34
4.2	STRATEGIES ADOPTED BY KEY PLAYERS, 2021-2024	34
4.3	REVENUE ANALYSIS, 2022-2024	35
4.4	MARKET SHARE ANALYSIS, 2024	36
4.5	COMPANY VALUATION AND FINANCIAL METRICS	39
4.6	BRAND/PRODUCT COMPARISON	40
4.7	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024	40
4.7.1	STARS	41
4.7.2	EMERGING LEADERS	41
4.7.3	PERVASIVE PLAYERS	41
4.7.4	PARTICIPANTS	41
4.7.5	COMPANY FOOTPRINT: KEY PLAYERS, 2024	43
4.7.5.1	Company footprint	43
4.7.5.2	Region footprint	44
4.7.5.3	Product footprint	45
4.7.5.4	Type footprint	46
4.7.5.5	Technology footprint	47
4.7.5.6	Application footprint	48
4.8	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024	49
4.8.1	PROGRESSIVE COMPANIES	49
4.8.2	RESPONSIVE COMPANIES	49
4.8.3	DYNAMIC COMPANIES	49
4.8.4	STARTING BLOCKS	49
4.8.5	COMPETITIVE BENCHMARKING OF STARTUPS/SMES	51
4.8.5.1	Detailed list of key startups/SMEs	51
4.8.5.2	Competitive benchmarking of key startups/SMEs	51
4.9	COMPETITIVE SCENARIO	52
4.9.1	PRODUCT LAUNCHES, APPROVALS, AND ENHANCEMENTS	52
4.9.2	DEALS	53
4.9.3	EXPANSIONS	54
?		
5	COMPANY PROFILES	55

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5.1	KEY PLAYERS	55
5.1.1	ABBOTT LABORATORIES	55
5.1.1.1	Business overview	55
5.1.1.2	Products/Solutions/Services offered	56
5.1.1.3	Recent developments	57
5.1.1.3.1	Product enhancements	57
5.1.1.3.2	Deals	58
5.1.1.4	MnM view	58
5.1.1.4.1	Key strengths/Right to win	58
5.1.1.4.2	Strategic choices	59
5.1.1.4.3	Weaknesses/Competitive threats	59
5.1.2	F. HOFFMANN-LA ROCHE LTD	60
5.1.2.1	Business overview	60
5.1.2.2	Products/Solutions/Services offered	61
5.1.2.3	Recent developments	62
5.1.2.3.1	Deals	62
5.1.2.4	MnM view	62
5.1.2.4.1	Key strengths/Right to win	62
5.1.2.4.2	Strategic choices	63
5.1.2.4.3	Weaknesses/Competitive threats	63
5.1.3	MEDTRONIC	64
5.1.3.1	Business overview	64
5.1.3.2	Products/Services/Solutions offered	65
5.1.3.3	Recent developments	66
5.1.3.3.1	Product approvals	66
5.1.3.3.2	Deals	66
5.1.3.4	MnM view	67
5.1.3.4.1	Key strengths/Right to win	67
5.1.3.4.2	Strategic choices	67
5.1.3.4.3	Weaknesses/Competitive threats	67
5.1.4	BIO-RAD LABORATORIES, INC.	68
5.1.4.1	Business overview	68
5.1.4.2	Products/Solutions/Services offered	69
5.1.4.3	MnM view	70
5.1.4.3.1	Key strengths/Right to win	70
5.1.4.3.2	Strategic choices	70
5.1.4.3.3	Weaknesses/Competitive threats	70
5.1.5	DUPONT	71
5.1.5.1	Business overview	71
5.1.5.2	Products/Solutions/Services offered	72
	?	
5.1.5.3	Recent developments	73
5.1.5.3.1	Deals	73
5.1.5.3.2	Expansion	73
5.1.5.4	MnM view	73
5.1.5.4.1	Key strengths/Right to win	73
5.1.5.4.2	Strategic choices	74

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5.1.5.4.3	Weaknesses/Competitive threats	74
5.1.6	BIOSENSORS INTERNATIONAL GROUP, LTD.	75
5.1.6.1	Business overview	75
5.1.6.2	Products/Solutions/Services offered	75
5.1.6.3	Recent developments	76
5.1.6.3.1	Product approvals	76
5.1.7	CYTIVA	77
5.1.7.1	Business overview	77
5.1.7.2	Products/Solutions/Services offered	77
5.1.7.3	Recent developments	78
5.1.7.3.1	Deals	78
5.1.8	DEXCOM, INC.	79
5.1.8.1	Business overview	79
5.1.8.2	Products/Solutions/Services offered	80
5.1.8.3	Recent developments	80
5.1.8.3.1	Product launches	80
5.1.9	LIFESCAN IP HOLDINGS, LLC	81
5.1.9.1	Business overview	81
5.1.9.2	Products/Solutions/Services offered	81
5.1.10	MASIMO	82
5.1.10.1	Business overview	82
5.1.10.2	Products/Solutions/Services offered	83
5.1.10.3	Recent developments	83
5.1.10.3.1	Deals	83
5.1.11	NOVA BIOMEDICAL	84
5.1.11.1	Business overview	84
5.1.11.2	Products/Solutions/Services offered	84
5.1.11.3	Recent developments	85
5.1.11.3.1	Deals	85
5.1.12	UNIVERSAL BIOSENSORS	86
5.1.12.1	Business overview	86
5.1.12.2	Products/Solutions/Services offered	88
5.2	OTHER PLAYERS	89
5.2.1	ACON LABORATORIES	89
5.2.2	CONDUCTIVE TECHNOLOGIES	90
5.2.3	EASTPRINT INCORPORATED	91
5.2.4	IST AG	92
5.2.5	LIFESIGNALS	93
5.2.6	NEUROSKY	94
5.2.7	PINNACLE TECHNOLOGY	95
5.2.8	SD BIOSENSOR, INC.	96
5.2.9	VITALCONNECT	97
5.2.10	XSENSIO	98
5.2.11	ZIMMER AND PEACOCK	99
5.2.12	PARAGRAF LIMITED	100
5.2.13	DYNAMIC BIOSENSORS	100
5.2.14	LINEXENS	101

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5.2.15	BIOLINQ INCORPORATED	101
6	APPENDIX	102
6.1	RESEARCH METHODOLOGY	102
6.1.1	RESEARCH DATA	102
6.1.1.1	Secondary data	103
6.1.1.2	Primary data	104
6.1.2	RESEARCH ASSUMPTIONS	105
6.1.3	RESEARCH LIMITATIONS	105
6.1.4	RISK ANALYSIS	106
6.2	COMPANY EVALUATION MATRIX: METHODOLOGY	106
6.3	AUTHOR DETAILS	109

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Biosensors - Company Evaluation Report, 2025

Market Report | 2025-08-01 | 109 pages | MarketsandMarkets

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

ORDER FORM:

Select license	License	Price
	Single User	\$2650.00
	Corporate License	\$4250.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-09"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com