



Electroceuticals Market: 2016-2025

September 2017

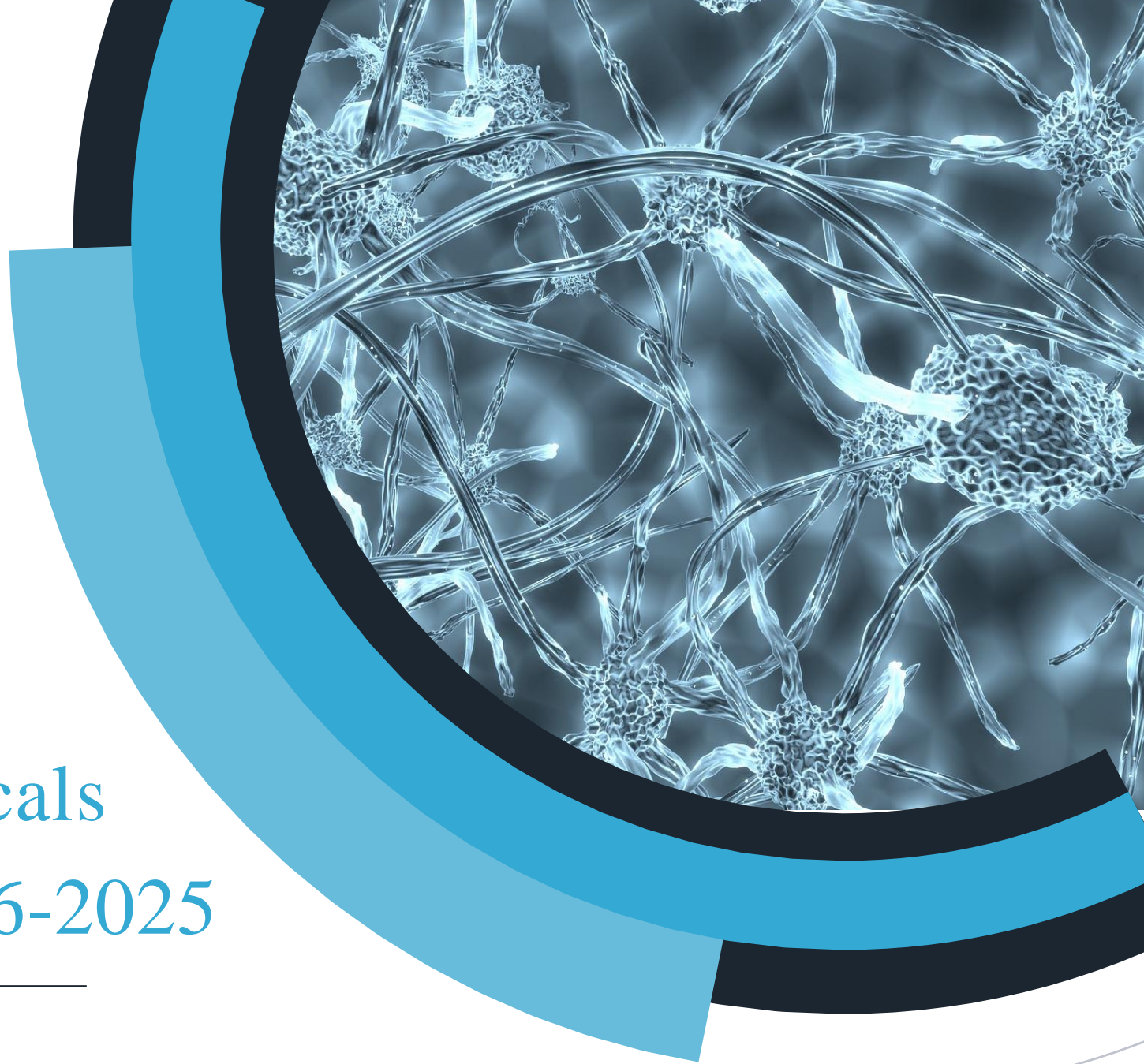


Table of Contents

Executive Summary	9
Key Questions Answered	10
1. Electroceuticals: An Introduction	Error! Bookmark not defined.
2. Types of Electroceuticals	Error! Bookmark not defined.
I. Cardiac Electrostimulation.....	Error! Bookmark not defined.
a. Cardiac Pacemakers:.....	<i>Error! Bookmark not defined.</i>
b. Implantable Cardioverter defibrillator.....	<i>Error! Bookmark not defined.</i>
II. Invasive Neurostimulation	Error! Bookmark not defined.
a. Spinal Cord Stimulation (SCS) or Peripheral Nerve Stimulation (PNS):.....	<i>Error! Bookmark not defined.</i>
b. Deep Brain Stimulation (DBS).....	<i>Error! Bookmark not defined.</i>
c. Motor Cortex Stimulation (MCS).....	<i>Error! Bookmark not defined.</i>
d. Vagus Nerve Stimulation (VNS).....	<i>Error! Bookmark not defined.</i>
e. Occipital Nerve Stimulation (ONS).....	<i>Error! Bookmark not defined.</i>
III. Non-invasive Neurostimulation Categories:	Error! Bookmark not defined.
a. Transcutaneous Electrical Nerve Stimulation (TENS).....	<i>Error! Bookmark not defined.</i>
b. Repetitive Transcranial Magnetic Stimulation (rTMS).....	<i>Error! Bookmark not defined.</i>
c. Transcranial Direct Current Stimulation (tDCS)	<i>Error! Bookmark not defined.</i>
IV. Cochlear Implants	Error! Bookmark not defined.
V. Retinal Implants	Error! Bookmark not defined.
3. Applications of Electroceuticals	Error! Bookmark not defined.
I. Current & Marketed Applications.....	Error! Bookmark not defined.
II. Futuristic Applications of Electroceuticals	Error! Bookmark not defined.
4. Global Electroceuticals Market: An Analysis	Error! Bookmark not defined.
I. Global Electroceuticals Market by Value	Error! Bookmark not defined.
II. Global Electroceuticals Market Share by Application Areas.....	Error! Bookmark not defined.
a. Global Neurostimulation Market by Value	<i>Error! Bookmark not defined.</i>
b. Global Cardiac Pacemaker Market.....	<i>Error! Bookmark not defined.</i>
c. Global ICD Market	<i>Error! Bookmark not defined.</i>
d. Global Spinal Cord Stimulators Market	<i>Error! Bookmark not defined.</i>

e.	<i>Global Sacral Nerve Stimulators Market</i>	<i>Error! Bookmark not defined.</i>
f.	<i>Global Cochlear Implants Market</i>	<i>Error! Bookmark not defined.</i>
g.	<i>Global Deep Brain Stimulators Market</i>	<i>Error! Bookmark not defined.</i>
h.	<i>Global Vagus Nerve Stimulators Market</i>	<i>Error! Bookmark not defined.</i>
III.	Electroceutical Market by Regions	Error! Bookmark not defined.
a.	<i>North America Electroceutical Market</i>	<i>Error! Bookmark not defined.</i>
5.	Competitive Landscape	Error! Bookmark not defined.
I.	M&A Activity in Electroceuticals Market	Error! Bookmark not defined.
II.	Key Product Analysis.....	Error! Bookmark not defined.
6.	Patent & Technology Landscape	Error! Bookmark not defined.
I.	Methodology	Error! Bookmark not defined.
7.	Product Pipeline Analysis	Error! Bookmark not defined.
8.	Growth Drivers	Error! Bookmark not defined.
I.	Expansion in Research and Development (R&D).....	Error! Bookmark not defined.
II.	Increasing Ageing Population	Error! Bookmark not defined.
III.	Rise in Prevalence of Chronic Diseases	Error! Bookmark not defined.
9.	Trends and Developments	Error! Bookmark not defined.
I.	Technological Advancements	Error! Bookmark not defined.
II.	Launch of Electrical Prescriptions (ElectRx) Program	Error! Bookmark not defined.
III.	Brain Imaging - Invention of New Biomarkers in PTSD.....	Error! Bookmark not defined.
IV.	Accelerating Dementia Drug Discovery	Error! Bookmark not defined.
V.	Introduction of “Ultrasonic Neural Dust”	Error! Bookmark not defined.
10.	Challenges	Error! Bookmark not defined.
I.	Miniaturization& Personalization of Devices	Error! Bookmark not defined.
II.	Complex Manufacturing Process	Error! Bookmark not defined.
III.	Lack of Detailed Knowledge of Biology of Neural Pathways	Error! Bookmark not defined.
11.	Company Profiles:	Error! Bookmark not defined.
I.	Medtronic	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Product Portfolio</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>

II.	EnteroMedics	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
III.	Allergan PLC	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
IV.	Brainsway.....	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
V.	Advanced Bionics	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
VI.	Labyrinth Devices, LLC.....	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
VII.	Second Sight Medical Products, Inc.	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
VIII.	ElectroCore LLC.....	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
IX.	Vomaris Wound Care, Inc.....	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Product</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
X.	Bioelectric Research.....	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Product</i>	<i>Error! Bookmark not defined.</i>

XI.	Biotronik	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Product</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
XII.	LivaNova.....	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
XIII.	Cochlear Ltd.....	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
XIV.	St. Jude Medical, Inc.	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
XV.	NeuroMetrix.....	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
XVI.	Nevro Corporation	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Product</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
XVII.	DJO Global	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Product</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
XVIII.	Synapse Electroceutical	Error! Bookmark not defined.
a.	<i>Business Overview</i>	<i>Error! Bookmark not defined.</i>
b.	<i>Electroceuticals Products</i>	<i>Error! Bookmark not defined.</i>
c.	<i>Business Strategy</i>	<i>Error! Bookmark not defined.</i>
12.	About Us	11
	Disclaimer	11

List of Figures

Figure 2.1 Types of Electroceuticals.....	Error! Bookmark not defined.
Figure 4.1 Global Electroceutical Market by Value (2015-2025).....	Error! Bookmark not defined.
Figure 4.2 Global Electroceutical Market Share by application areas (2016)	Error! Bookmark not defined.
Figure 4.3 Global Neurostimulation Market by Value (2012-2025).....	Error! Bookmark not defined.
Figure 4.4 Global Cardiac Pacemaker Market by Value and Volume (2015-2025)	Error! Bookmark not defined.
Figure 4.5 Global ICD Market by Value & Volume (2011-2025).....	Error! Bookmark not defined.
Figure 4.8 Global Cochlear Implants Market by Value and Volume (2012-2025)	Error! Bookmark not defined.
Figure 4.9 Global Deep Brain Stimulators Market by Value (2012-2025).....	Error! Bookmark not defined.
Figure 4.10: Global Vagus Nerve Stimulators Market by Value (2012-2025)	Error! Bookmark not defined.
Figure 4.11 North America Electroceutical Market Share by Segments (2016).....	Error! Bookmark not defined.
Figure 5.1: Application of Electroceuticals by Therapy Area (2016).....	Error! Bookmark not defined.
Figure 6.1: Patent Publication Trend (2013-2017).....	Error! Bookmark not defined.
Figure 6.2: Country-wise Patenting Activity	Error! Bookmark not defined.
Figure 6.3: Key Players based on Patenting Activity.....	Error! Bookmark not defined.
Figure 8.1: R&D Investment in Electroceuticals Market by Companies (2016)	Error! Bookmark not defined.
Figure 8.2: Global Ageing Population (2000-2050)	Error! Bookmark not defined.
Figure 8.3: Prevalence of Chronic Disease in the US (2000-2030)	Error! Bookmark not defined.
Figure 11.1: Medtronic Net Sales Share by Business Segments (2016).....	Error! Bookmark not defined.
Figure11.2: Medtronic Net Sales Share by Region (2016)	Error! Bookmark not defined.

Figure 11.3: Net Sales and Net Income (2013-2017).....	Error! Bookmark not defined.
Figure 11.4: Research & Development expenses (2013-2017).....	Error! Bookmark not defined.
Figure 11.5 EnteroMedics Research & Development Expenses (2011-2015).....	Error! Bookmark not defined.
Figure11.6: Allergan PLC Revenue Share by Business Segments (2016).....	Error! Bookmark not defined.
Figure 11.6: Allergan PLC Net Revenue and Net Income (2012-2016).....	Error! Bookmark not defined.
Figure 11.7: Allergan PLC Research & Development Expenses (2012-2016).....	Error! Bookmark not defined.
Figure 11.8: Brainsway Net Revenues (2013-2016).....	Error! Bookmark not defined.
Figure 11.9: Brainsway Research & Development Expenses (2013-2016).....	Error! Bookmark not defined.
Figure 11.10: Second Sight Medical Net Sales (2012-2016).....	Error! Bookmark not defined.
Figure 11.11: Second Sight Medical Research & Development Expenses (2012-2016).....	Error! Bookmark not defined.
Figure11.12: LivaNova PLC Revenue Share by Business Segments (2016).....	Error! Bookmark not defined.
Figure 11.13: LivaNova PLC Revenue Share by Region (2016).....	Error! Bookmark not defined.
Figure 11.14: LivaNova PLC Net Sales and Net Income (2012-2016)	Error! Bookmark not defined.
Figure 11.15: LivaNova PLC Research & Development Expenses (2012-2016).....	Error! Bookmark not defined.
Figure 11.16: Cochlear Ltd Net Sales and Net Income (2012-2016).....	Error! Bookmark not defined.
Figure 11.17: Cochlear Ltd Research & Development Expenses (2012-2016).....	Error! Bookmark not defined.
Figure 11.18: St. Jude Medical Net Sales and Net Income (2011-2015).....	Error! Bookmark not defined.
Figure 11.19: St. Jude Medical Research & Development Expenses (2011-2015)	Error! Bookmark not defined.
Figure 11.20: NeuroMetrix Net Sales and Net Income (2012-2016).....	Error! Bookmark not defined.
Figure 11.21: NeuroMetrix Research & Development Expenses (2012-2016)	Error! Bookmark not defined.
Figure 11.22: Nevro Corporation Revenue (2012-2016).....	Error! Bookmark not defined.
Figure 11.23: Nevro Corporation Research & Development Expenses (2012-2016).....	Error! Bookmark not defined.

List of Tables

Table 1: Current Applications of Electroceuticals	Error! Bookmark not defined.
Table 2: Future Applications of Electroceuticals	Error! Bookmark not defined.
Table 3: Competitive Landscape of Key Players (2016)	Error! Bookmark not defined.
Table 4: Presence of Companies in Key Therapy Areas (2016)	Error! Bookmark not defined.
Table 5: Joint Ventures, Mergers & Acquisitions in Electroceuticals Market.....	Error! Bookmark not defined.
Table 6: Product Analysis of Key Players	Error! Bookmark not defined.
Table 7: Time-wise Patenting Activity of Key Players.....	Error! Bookmark not defined.
Table 10: Pipeline Products by Therapy Area	Error! Bookmark not defined.

Executive Summary

Electroceuticals, also known as bioelectrical is a term used to describe miniature devices which can alter electrical signals diffused by nerves throughout the body to treat a wide range of illnesses i.e. neurostimulation, unlike other stimulators of muscles and tissues. The unique value of electroceuticals is derived from the fact that they can have a much-localized action and act much faster with lesser side effects as compared to conventional drugs or chemical-based pharmaceuticals that alter molecular pathways. Although, as of now, the focus of electroceuticals development is on conditions that where drugs are ineffective or have considerable side effects, the strong efficacy and cost-effectiveness of the electroceuticals benefits might be set to disrupt the pharmaceutical industry sooner than later by replacing standard drug care therapy.

The global electroceuticals market is expected to grow at a CAGR of xx% during 2017 to 2025 to reach US\$xx billion by 2025 from an estimated market value US\$xx billion in 2016. The electroceuticals market growth is due to rising geriatric population, regulatory approval for new and advanced electroceuticals, growing investments by big pharma companies and funds by government and universities for the development of novel therapies and electroceuticals, advancement in technology such as miniaturization, improved battery technology, advent of wearable devices, wireless micro-current stimulation, rising prevalence of neurological disorders and hearing loss and increasing chronic pain market with unmet needs for alternate therapies for Opioids use.

The electroceutical devices global market is categorized into invasive and non-invasive electroceutical devices based on the type. The invasive or internal electroceutical segment held the largest market revenue in 2015 and is expected to grow at a higher growth rate from 2015 to 2022 as compared to external or non-invasive electroceuticals due to technological advancement in wireless microcurrent stimulation, wearable pain management technology, miniaturization etc.

North America accounts for the highest market share followed by Europe and will continue to lead the market in the coming years. The large share of the North American region can be attributed to the rising prevalence of heart diseases, chronic diseases and increasing regulatory approvals of electroceutical devices. Moreover, the shift in preference toward these devices by patients and healthcare providers who are resistant towards the conventional techniques like surgeries and drug therapy will also contribute to this market's growth in the region.

The electroceutical device market is highly fragmented with a large number of small and medium-size manufacturer's. Few big pharma companies like GSK, Abbott, GE and Medtronic with other well-known corporations such as Boston Scientific; Cochlear; LivaNova; Enteromedics; Sonova; Biotronik; Nevro Corp.; Second Sight and ElectroCore, and many startups and small-sized companies are present in the market. The electroceuticals market is highly competitive in nature due to a large number of players providing similar products.

Prospective applications for electroceuticals seem extensive, chronic pain segment is one of mainstream application and largest segment of electroceuticals devices. Increasing awareness of harmful side effects of Opioids and greater chances of drug abuse, misuse, and dependence has increased R&D for new treatments for chronic pain which has minimal side effects.

Key Questions Answered

1. What was electroceuticals market size by value from 2015-2025?
2. What was electroceuticals market size by product types from 2015?
3. What was neurostimulation market size by value from 2012-2025?
4. What was cardiac pacemaker market size by value and volume from 2015-2025?
5. What was ICD market size by value and volume from 2011-2025?
6. What was spinal cord stimulators market size by value from 2012-2025?
7. What was sacral nerve stimulators market size by value from 2012-2025?
8. What was cochlear implants market size by value and volume from 2012-2025?
9. What was deep brain stimulators market size by value 2012-2025?
10. What was vagus nerve stimulators market size by value 2012-2025?
11. What was North America electroceuticals market size by products 2016?
12. A comprehensive mapping of competitive landscape of key players and the presence of their electroceutical products in different therapy areas.
13. Merger & Acquisition, collaboration and other strategies adopted by the key players in the market.
14. A comprehensive analysis of recently launched electroceuticals products.
15. Pipeline analysis of key players by therapy area.
16. How the growth drivers, future opportunities and challenges affect the market dynamics.
17. Detailed company profiling of 17 market players including their electroceutical products and their sustainability strategies.

About Us

EffeMarket provides market and business research solutions to clients in over 20 industries through syndicated studies, custom research, consulting engagements and newsletters. Our experienced analyst and widespread network of experts ensures accuracy within studies and provides our patrons with extensively researched, fact-based insights that help you to take better decisions.

Disclaimer

EffeMarket reports and their contents, including all the analysis and research containing valuable market information, are provided to a select group of customers in response to orders. Our customers acknowledge when ordering that EffeMarket reports including all research and insights in their entirety are for our customers' internal use and not for general publication or disclosure to third parties.

The market information is based primarily on secondary research and interviews and therefore, is subject to changes. EffeMarket takes no responsibility for any incorrect information supplied to us through such sources.

No part of this report may be given, lent, resold or disclosed to non-customers without written permission. Reproduction and/ or transmission in any form and by any means including photocopying, mechanical, electronic, recording or otherwise, without the permission of the publisher is prohibited.

Contact Us:

For any questions and updates please contact:

Sales@effemarket.com

Support@effemarket.com

Website: www.effemarket.com

Phone:

US: +1-972-256-8133

UK: +44-203-286-8233

IN: +91 120 4561797

Address:

Effectual Knowledge Services Pvt.
Ltd.
B-55, Sector 2, Noida – 201301,
U.P., India

US Office – New York
Effectual Knowledge Services, Inc.
425 Broadhollow Road, Suite 427,
Melville | NY 11747