

Validation, Calibration and Standardization in the Life Sciences Market

<https://marketpublishers.com/r/VBA5734ED64EN.html>

Date: April 2019

Pages: 185

Price: US\$ 2,750.00 (Single User License)

ID: VBA5734ED64EN

Abstracts

REPORT SCOPE:

The scope of this report is broad and covers multiple types of services available, instruments and consumables utilized, ongoing research and development in global validation, calibration and standardization in life sciences market and potential end-users. Global validation, calibration and standardization in the life sciences market is broken down into instruments and consumables, service type, service providers and end users. Revenue forecasts from 2017 to 2023 are given for each of these four segments, with estimated values derived from the total revenues of companies operating in the market.

The report includes a discussion of the major players across each region in validation, calibration and standardization in the life sciences market. This report also explains the major drivers and regional dynamics of this market and current trends within the industry.

The report concludes with a special focus on the vendor landscape and includes detailed profiles of the major vendors in this market.

REPORT INCLUDES:

85 data tables and 50 additional tables

Country specific data and analysis for US, Canada, Germany, France, UK, Spain, China, India, Japan, and Australia

Explanation of validation and calibration of instruments such as heap filters, pH meters, incubators, autoclaves, HPLC units, and GC units

Discussion of ongoing research in treatments of various diseases and susceptibility of various microbes toward traditional medicines as driving factors to the industry

Insight into the regulatory compliances in life science industry

Detailed profile of major companies of the industry, including Beckman Coulter, Inc., Biovia (Dassault Systems), Data Sciences International (DSI), IBM and Thermo Fisher Scientific

Contents

CHAPTER 1 INTRODUCTION

Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
BCC Custom Research
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Introduction
Market Potential
Regulatory Outlook
United States
Europe
China
Japan
Investment Analysis
Segment Overview
Instruments and Consumables
By Service Type
By Service Provider
Geographic Overview
North America
Asia-Pacific
Europe
Rest of World

CHAPTER 4 MARKET DETERMINANTS

Strict Regulatory Compliance in the Life Sciences Industry

Validation, Calibration and Standardization in the Life Sciences Market

Regulation of Medical Devices
Regulation of Environmental Testing
Regulation of Medical Devices Containing Drugs
Increasing Adoption of GMP for Global Business Opportunities
Surging Demand for Accurate Information and Preventive Maintenance of Instruments
High Growth in the Pharmaceutical and Biotechnology Market
Rising Adoption of Calibration Management Software

CHAPTER 5 MARKET BREAKDOWN BY SERVICE PROVIDER

In-house Validation, Calibration and Standardization in the Life Sciences Market
Objectives of Calibration
Need for In-house Calibration, Validation and Standardization
Benefits of In-house Calibration, Validation and Standardization
OEM Validation, Calibration and Standardization in the Life Sciences Market
Benefits of OEM Calibration
Objective in Selecting Original Equipment Manufacturer Calibration Provider
Companies Offering Calibration and Validation Services
Third-Party Validation, Calibration and Standardization in the Life Sciences Market
Importance of Third-Party Calibration Services
Companies Offering Third-Party Calibration and Validation Services
National Standards for Calibration Laboratories

CHAPTER 6 MARKET BREAKDOWN BY SERVICE TYPE

Analytical Technique Validation Parameters
Electrotechnical
Micro-Ohmmeter/DLRO Calibration
Megohmmeter Calibration and Insulation Tester Calibration
Power Supply Calibration: AC Power and DC Power
Oscilloscope Calibration
Electrotechnical Market, by Region
Pressure
Fluid Flow/Optical
Pipettes
Thermal
Mechanical
Others

CHAPTER 7 MARKET BREAKDOWN BY INSTRUMENTS AND CONSUMABLES

Instruments

Biochemistry Analyzers

pH Meters

Pressure and Temperature Calibrators

Others

Consumables

Calibration Kits/Sampling Kits

Slides

Filters

Glass Consumables

Others

CHAPTER 8 MARKET BREAKDOWN BY END USER

Pharmaceutical and Biotechnology Companies

Calibration in Pharmaceutical Industry

Instrument Calibration in Pharmaceutical Industry

Validation in the Pharmaceutical Industry

Drivers

Research Laboratories

Calibration in Research Laboratories

Validation in Research Laboratories

Clinics and Hospitals

Validation in Clinics and Hospitals

Calibration in Clinics and Hospitals

Contract Research Organizations

CHAPTER 9 MARKET BREAKDOWN BY REGION

North America

United States

Canada

Europe

United Kingdom

France

Germany

Spain

Rest of Europe
Asia-Pacific
China
India
Japan
Australia
Rest of Asia-Pacific
Rest of World
Latin America
Middle East and Africa

CHAPTER 10 INDUSTRY STRUCTURE

Raw Material Procurement
Quality and Technology
Terms and Conditions
Cost-Effective Components
Manufacturing and Development Process
Distributors
End Users

CHAPTER 11 COMPETITIVE ANALYSIS

CHAPTER 12 COMPANY PROFILES

AGILE LIFESCIENCE TECHNOLOGIES PVT. LTD.
AUTOCAL SOLUTIONS PVT. LTD.
BECKMAN COULTER, INC.
BIOVIA (DASSAULT SYSTEMS)
CALIBRATIONLAB BVBA
CBRE
DATA SCIENCES INTERNATIONAL (DSI)
ENDRESS+HAUSER
ESSCO CALIBRATION LABORATORY
EVOLUTION SCIENTIFIC
IBM
INSIGHT CALIBRATION SERVICES
J.A. KING
KARANDIKAR LABORATORIES PVT. LTD.

MERCK MILLIPORE
SGS
TANGENT LABS
TEKTRONIX
TELSTAR LIFE SCIENCE SOLUTIONS
THERMO FISHER SCIENTIFIC
TRANSCAT, INC.
TRESCAL
VAISALA
VALGENESIS
VERICHEK TECHNICAL SERVICES, INC.
WESTPORT CORP.

List Of Tables

LIST OF TABLES

Summary Table A: Validation, Calibration and Standardization in the Global Life Sciences Market, by End User, Through 2023

Summary Table B: Validation, Calibration and Standardization in the Global Life Sciences Market, by Region, Through 2023

Table 1: Global Life Science Research and Development Spending, 2014-2016

Table 2: Number of R&D Projects in Drug Development, 2014-2017

Table 3: Validation, Calibration and Standardization in the Global Life Sciences Market, by Instruments and Consumables, Through 2023

Table 4: Validation, Calibration and Standardization in the Global Life Sciences Market, by Service Type, Through 2023

Table 5: GMP Regulations and Preambles

Table 6: Worldwide Total Pharmaceutical R&D Spend, 2015-2022

Table 7: PhRMA Member Company R&D Expenditures, 2010 and 2016

Table 8: Investments in Biotechnology

Table 9: Advantages of Using Calibration Management Software

Table 10: Validation, Calibration and Standardization in the Global Life Sciences Market, by Service Providers, Through 2023

Table 11: Global In-house Service Providers Market, by Region, Through 2023

Table 12: Global OEM Service Providers Market, by Region, Through 2023

Table 13: Global Third-Party Service Providers Market, by Region, Through 2023

Table 14: Third-Party Calibration and Validation Services

Table 15: Validation, Calibration and Standardization in the Global Life Sciences Market, by Service Type, Through 2023

Table 16: Global Electrotechnical Market, by Region, Through 2023

Table 17: North American Electrotechnical Market, by Country, Through 2023

Table 18: Federal Funding for Biomedical and Associated Life Sciences Research, 2016

Table 19: European Electrotechnical Market, by Country, Through 2023

Table 20: Asia-Pacific Electrotechnical Market, by Country, Through 2023

Table 21: Rest of World Electrotechnical Market, by Sub-region, Through 2023

Table 22: Global Pressure Market, by Region, Through 2023

Table 23: North American Pressure Market, by Country, Through 2023

Table 24: European Pressure Market, by Country, Through 2023

Table 25: Asia-Pacific Pressure Market, by Country, Through 2023

Table 26: Rest of World Pressure Market, by Sub-region, Through 2023

Table 27: Global Fluid Flow/Optical Market, by Region, Through 2023
Table 28: North American Fluid Flow/Optical Market, by Country, Through 2023
Table 29: European Fluid Flow/Optical Market, by Country, Through 2023
Table 30: Asia-Pacific Fluid Flow/Optical Market, by Country, Through 2023
Table 31: Rest of World Fluid Flow/Optical Market, by Sub-region, Through 2023
Table 32: Global Pipette Market, by Region, Through 2023
Table 33: North American Pipette Market, by Country, Through 2023
Table 34: European Pipette Market, by Country, Through 2023
Table 35: Asia-Pacific Pipette Market, by Country, Through 2023
Table 36: Rest of World Pipette Market, by Sub-region, Through 2023
Table 37: Global Thermal Market, by Region, Through 2023
Table 38: North American Thermal Market, by Country, Through 2023
Table 39: European Thermal Market, by Country, Through 2023
Table 40: Asia-Pacific Thermal Market, by Country, Through 2023
Table 41: Rest of World Thermal Market, by Sub-region, Through 2023
Table 42: Global Mechanical Market, by Region, Through 2023
Table 43: North American Mechanical Market, by Country, Through 2023
Table 44: European Mechanical Market, by Country, Through 2023
Table 45: Asia-Pacific Mechanical Market, by Country, Through 2023
Table 46: Rest of World Mechanical Market, by Sub-region, Through 2023
Table 47: Global Other Service Type Market, by Region, Through 2023
Table 48: North American Other Service Type Market, by Country, Through 2023
Table 49: European Other Service Type Market, by Country, Through 2023
Table 50: Asia-Pacific Other Service Type Market, by Country, Through 2023
Table 51: Rest of World Other Service Type Market, by Sub-region, Through 2023
Table 52: Validation, Calibration and Standardization in the Global Life Sciences Market, by Instruments and Consumables, Through 2023
Table 53: Validation, Calibration and Standardization in the Global Life Sciences Market, by Instruments, Through 2023
Table 54: Global Pharmaceutical Industry Instruments Market, by Region, Through 2023
Table 55: Global Pharmaceutical Market, 2015 and 2020
Table 56: Different Applications of pH Meter
Table 57: pH Standard Tests and Methods
Table 58: Water and Soil Conductivity Standards and Methods
Table 59: Standard Conductivity Specification for Reagent Grade Water
Table 60: Validation, Calibration and Standardization in the Global Life Sciences Market, by Consumables, Through 2023
Table 61: Global Consumable Market, by Region, Through 2023

Table 62: Biotechnology Investments

Table 63: Validation, Calibration and Standardization in the Global Life Sciences Market, by Calibration Kits/Sampling Kits, Through 2023

Table 64: Validation, Calibration and Standardization in the Global Life Sciences Market, by End User, Through 2023

Table 65: Global Pharmaceutical and Biotechnology Companies Market, by Region, Through 2023

Table 66: Pharmaceutical Quality/Manufacturing Standards (CGMP), 2016-2018

Table 67: Global Research Laboratories Market, by Region, Through 2023

Table 68: List of Recognized Calibration Laboratories for Measurement of Radionuclide Content in Commodities in India

Table 69: Global Clinics and Hospitals Market, by Region, Through 2023

Table 70: Comparison of In-house and Outside Scale Calibration in Hospitals

Table 71: Global Contract Research Organizations Market, by Region, Through 2023

Table 72: Validation, Calibration and Standardization in the Global Life Sciences Market, by Region, Through 2023

Table 73: North American Validation, Calibration and Standardization in the Life Sciences Market, by Country, Through 2023

Table 74: North American Validation, Calibration and Standardization in the Life Sciences Market, by Service Type, Through 2023

Table 75: Global Spending on Medicine, 2011-2021

Table 76: Pharmaceutical R&D Expenditures in the United States, 2000-2015

Table 77: List of Select FDA Drug Recalls

Table 78: Canadian Pharmaceutical Industry R&D Expenditures, 2013-2016

Table 79: European Validation, Calibration and Standardization in the Life Sciences Market, by Country, Through 2023

Table 80: Pharmaceutical R&D Expenditure in Europe, 2000-2017

Table 81: Validation, Calibration and Standardization in the European Life Sciences Market, by Service Type, Through 2023

Table 82: U.K.: Clinical Trials Applications, 2010-2015

Table 83: U.K.: Pharmaceutical R&D Expenditure, 2014-2015

Table 84: German: Pharmaceutical Industry Growth, 2011-2015

Table 85: Pharmaceutical Industry R&D Expenditure in Selected European Countries, 2016

Table 86: Evolution of the Number of Biotech Companies and R&D, 2013 and 2016

Table 87: Validation, Calibration and Standardization in the Asia-Pacific Life Sciences Market, by Country, Through 2023

Table 88: Number of Drug Trials in Asia-Pacific, 2011-2016

Table 89: Asia-Pacific Validation, Calibration and Standardization in the Life Sciences

Market, by Service Type, Through 2023

Table 90: India: Pharmaceutical Market, 2011-2017

Table 91: Japan: Pharmaceutical Industry, 2010-2015

Table 92: Number of Clinical Trials in Australia, 2006-2015

Table 93: Increasing R&D Investments in Pharmaceutical Sector in South Korea, 2016-2017

Table 94: Rest of World Validation, Calibration and Standardization in Life Sciences Market, by Region, Through 2023

Table 95: Laboratory Certification and Accreditation in Latin American Countries

Table 96: Rest of World Validation, Calibration and Standardization in Life Sciences Market, by Service Type, Through 2023

Table 97: Global Suppliers to Devices and Instruments in Validation, Calibration and Standardization in the Life Sciences Market

Table 98: Select Manufacturers of Devices and Instruments in Validation, Calibration and Standardization in the Life Sciences Market

Table 99: Select Distributors of Devices and Instruments in Validation, Calibration and Standardization in the Life Sciences Market

Table 100: Total Number of Studies Across the Globe, by Region, 2016

Table 101: Product Comparison Analysis

Table 102: Agile Lifescience Technologies Pvt Ltd.: Product Portfolio

Table 103: Autocal Solutions Pvt. Ltd.: Product Portfolio

Table 104: Beckman Coulter, Inc.: Product Portfolio

Table 105: BIOVIA: Product Portfolio

Table 106: Calibration Lab: Product Portfolio

Table 107: CBRE: Product Portfolio

Table 108: Data Science International (DSI): Product Portfolio

Table 109: Endress+Hauser: Product Portfolio

Table 110: Essco Calibration Laboratory: Product Portfolio

Table 111: Essco Calibration Laboratory: Recent Developments, January 2015-September 2018

Table 112: Evolution Scientific: Product Portfolio

Table 113: IBM: Product Portfolio

Table 114: Insight Calibration Services: Product Portfolio

Table 115: J.A. King: Product Portfolio

Table 116: Karandikar Laboratories Pvt. Ltd.: Product Portfolio

Table 117: Merck Millipore: Product Portfolio

Table 118: Merck Millipore: Recent Developments, January 2015-September 2018

Table 119: SGS: Product Portfolio

Table 120: Tangent Labs: Product Portfolio

Table 121: Tektronix: Product Portfolio

Table 122: Telstar Life Science Solutions: Product Portfolio

Table 123: Thermo Fisher Scientific: Product Portfolio

Table 124: Transcat, Inc.: Product Portfolio

Table 125: Transcat, Inc.: Recent Developments, January 2015-September 2018

Table 126: Trescal: Product Portfolio

Table 127: Trescal: Recent Developments, January 2015-September 2018

Table 128: Vaisala: Product Portfolio

Table 129: Vaisala: Recent Developments, January 2015-September 2018

Table 130: ValGenesis: Product Portfolio

Table 131: ValGenesis: Recent Developments, January 2015-June 2018

Table 132: Verichek Technical Services, Inc.: Product Portfolio

Table 133: WESTport Corp.: Product Portfolio

List Of Figures

LIST OF FIGURES

Summary Figure A: Validation, Calibration and Standardization in the Global Life Sciences Market, by End User, 2017-2023

Summary Figure B: Validation, Calibration and Standardization in the Global Life Sciences Market, by Region, 2017-2023

Figure 1: Global Life Science Research and Development Spending, 2014-2016

Figure 2: Number of R&D Projects in Drug Development, 2014-2017

Figure 3: Validation, Calibration and Standardization in the Global Life Sciences Market, by Instruments and Consumables, 2017-2023

Figure 4: Validation, Calibration and Standardization in the Global Life Sciences Market, by Service Type, 2017-2023

Figure 5: Overview of GMP

Figure 6: Worldwide Total Pharmaceutical R&D Spending, 2015-2022

Figure 7: PhRMA Member Company R&D Expenditures, 2010 and 2016

Figure 8: Segment Overview for Service Providers

Figure 9: Traceability Process for In-house Calibration

Figure 10: Validation Process

Figure 11: Type of Service

Figure 12: Schematic Diagram of Pressure Gauge Calibration

Figure 13: Block Diagram of Fluid Flow Meter

Figure 14: Types of Pipettes

Figure 15: Thermal Calibration Process Flowchart

Figure 16: Applications of Mechanical Testing

Figure 17: Need for Validation, Calibration and Standardization Services in Pharmaceutical Industry

Figure 18: Global Pharmaceutical Market, 2015 and 2020

Figure 19: Applications of Biochemistry Analyzers

Figure 20: Working of Conductivity Meters

Figure 21: Regulatory Compliance in the Life Sciences

Figure 22: Bradford Method for Protein Quantification

Figure 23: End-User Segmentation: Life Science Market

Figure 24: Calibration Process in a Pharmaceutical Company

Figure 25: Calibration Procedures in Pharmaceutical Plant

Figure 26: Steps of Calibration in Pharmaceutical Industry

Figure 27: Types of Validation in Pharmaceutical Industry

Figure 28: Types of Multi-Laboratory Validation Studies

Figure 29: Multi-Laboratory Validation Studies

Figure 30: Reliable Calibration Process

Figure 31: Validation Framework and Projects

Figure 32: Global Spending on Medicine, 2011-2021

Figure 33: Pharmaceutical R&D Expenditures in the United States, 2000-2015

Figure 34: Canadian Pharmaceutical Industry R&D Expenditures, 2013-2016

Figure 35: Pharmaceutical R&D Expenditure in Europe, 2000-2017

Figure 36: U.K.: Clinical Trials Applications, 2010-2015

Figure 37: U.K.: Pharmaceutical R&D Expenditures, 2014-2015

Figure 38: Germany: Pharmaceutical Industry Growth, 2011-2015

Figure 39: Pharmaceutical Industry R&D Expenditure in Selected European Countries, 2016

Figure 40: Evolution of the Number of Biotech Companies and R&D, 2013 and 2016

Figure 41: Number of Drug Trials in Asia-Pacific, 2011-2016

Figure 42: India: Pharmaceutical Market, 2011-2017

Figure 43: Japan: Pharmaceutical Industry, 2010-2015

Figure 44: Number of Clinical Trial in Australia, 2006-2015

Figure 45: Increasing R&D Investments in Pharmaceutical Sector in South Korea, 2016-2017

Figure 46: Industry Structure of Devices and Instruments in Validation, Calibration and Standardization in the Life Sciences Market

Figure 47: Share of Total Number of Studies Across the Globe, by Region, 2016

I would like to order

Product name: Validation, Calibration and Standardization in the Life Sciences Market

Product link: <https://marketpublishers.com/r/VBA5734ED64EN.html>

Price: US\$ 2,750.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/VBA5734ED64EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970