

Polymerase Chain Reaction (PCR) – A Global Market Overview

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Abstracts

REPORT SYNOPSIS

Polymerase chain reaction (PCR) is a technology that has opened up new vistas for advances in life sciences research and molecular diagnostics due to its attributes, such as detection and quantification of DNA and RNA genetic materials. North America leads the global market for PCR, estimated at US\$3.5 billion (40.3% share) in 2017, which is expected to maintain a 2017–2022 CAGR of 7.5% in reaching a projected US\$5 billion by 2022.

Asia–Pacific is expected to witness the fastest similar period robust CAGR of 9.2% and reach US\$2.5 billion by 2022. Global demand for PCR in Clinical Diagnostics Labs & Hospitals, among end use sectors, is slated to record the fastest CAGR of 8.6% during the aforementioned analysis period.

RESEARCH FINDINGS & COVERAGE

Global PCR market is examined in this report with respect to latest prominent technologies, major application areas and key end-use sectors

The report exclusively analyzes each application area, technology and end-use sector of PCR by a major geographic region

Droplet Digital PCR Surpasses Real-Time PCR in Detecting Environmental DNA

PCR Testing for Veterinary Diseases Gaining Momentum



Capillary Loop Convective Polymerase Chain Reaction Platform with Real-Time Fluorescence Detection Improves Amplification Efficiency

Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments

Major companies profiled - 33

The industry guide includes the contact details for 161 companies

PRODUCT OUTLINE

The report analyzes the market for the key product segments of PCR including:

Instruments

Reagents & Consumables

Software & Services

Application Areas of PCR analyzed comprise the following:

Clinical Diagnostics

Life Sciences

Others

End-Use Sectors of PCR analyzed comprise the following:

Academic & Research Institutes

Clinical Diagnostics Labs & Hospitals

Pharmaceutical & Biotechnology



Others

Analysis Period, Units and Growth Rates

The report reviews, analyzes and projects the global PCR market for the period 2014-2022 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2017 through 2022

Geographic Coverage

North America (The United States, Canada and Mexico)

Europe (France, Germany, Italy, The United Kingdom, and Rest of Europe)

Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)

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Abbott Laboratories (United States) Agilent Technologies, Inc. (United States) Becton, Dickinson and Company (United States) Biocartis NV (Belgium) Bio-Rad Laboratories, Inc. (United States) Danaher Corporation (United States) Eppendorf AG (Germany) F. Hoffmann-La Roche Ltd (Switzerland) Fluidigm Corporation (United States) GE Healthcare Life Sciences (United Kingdom) Merck KGaA (Germany) Ocimum Biosolutions Ltd. (India) Qiagen N.V. (The Netherlands) Thermo Fisher Scientific, Inc. (United States)

4. KEY BUSINESS TRENDS

Thermo Fisher's DNA Detection Kit Receives FBI approvals to Identify male-specific Y chromosome markers Genomic Health and Biocartis Enter into Agreement to Develop Oncotype DX Breast **Recurrence Score Test** Bio-Rad Unveils RT-PCR Assay Kit for Simultaneous Detection of Zika, Dengue, and Chikungunya Viruses Angle Plc Enters into Marketing Partnership with QIAGEN **QIAGEN** and Clinical Genomics Join Forces to work on Colorectal Cancer FDA Approval for Thermo Fisher's TaqPath Zika Virus Kit Bioline Expands JetSeq portfolio Thermo Fisher Completes CE-IVD Registration of its QuantStudio 5 Dx System for In Vitro Diagnostic Use in Europe Fluidigm and Ascendas Genomics Partner to Develop Microfluidic Molecular **Diagnostics in China** Agilent Technologies Launches AriaDx Real-Time PCR System in Europe Fluidigm Unveils Advanta Immuno-Oncology Gene Expression PCR Assay Formulatrix, Inc Introduces CONSTELLATION Digital PCR System Roche Introduces Cobas MRSA/SA Nucleic Acid Test Bio-Rad Launches First Droplet Digital PCR–Based Assays Bio-Rad Unveils CFX Maestro Software for PCR Data Analysis FDA Approval for QIAGEN's Artus CMV QS-RGQ MDx Kit for CMV Testing



Roche Receives FDA Approval for CMV Viral Load Testing on Cobas 6800/8800 Systems

FDA 510(K) Clearance for BDC's Molecular Test for Harmful Intestinal Bacteria Causing Infectious Diarrhea

Sysmex to Acquire Oxford Gene Technology

Seegene Enters the U.S. Diagnostic Market in Collaboration with Thermo Fisher Seegene Develops Second-Generation real-time PCR technology Universal SG Fluorescence-labeled oligo

Bruker to Release new Clinical Microbiology kits and Assays at ECCMID Roche Introduces Cobas Liat PCR System with New Assays

QIAGEN to Release AR-V7 Test in Prostate Cancer for Research Use Only

QIAGEN and CACER-ID Consortium Collaborate on Liquid Biopsies Workflows

QIAGEN Introduces First FDA-Cleared JAK2 Test for Leukemia Disease

Roche Launches Cobas HPV on the Cobas 6800/8800 Systems for Cervical Cancer Bioline Unveils New JetSeq DNA Quantification Kits

Thermo Fisher Launches QuantStudio 5 Real-Time PCR System for Forensic Laboratory Use

Digital PCR Upholds High Reproducibility International Multicenter Study

Promega and Hitachi Technologies Team-Up for Capillary Electrophoresis (CE) Instrument

U.S. FDA Grants Abbott the First Commercial Authorization for a Molecular Test to Detect Zika Virus Using Whole Blood

Global Liquid Biopsy Researchers Participate in Precision Medicine World Conference on NGS & PCR Technologies

Bio-Rad to Acquire RainDance Technologies

Bioline Unveils EPIK miRNA Assays

Bruker Acquires InVivo Biotech

QIAGEN Introduces CALR Mutation Assay for MPN Diagnosis

Roche and Merck KGaA Enter into Distribution Agreement

Biocartis and Thermo Fisher Announce Agreement

RainDance Technologies Unveils RainDrop Plus Digital PCR System

Promega Corporation Launches Promega PCR Optimization Kit

Bruker Acquires Nucleic Acid Testing (NAT) Assays and Syndromic Panel Technology

BD MAX Vaginal and CT/GC/TV Panels receives FDA approval

Biocartis receives ? 1.4 M grant from VLAIO

LabCorp launches cobras 8800 system from Roche

RainDance Technologies Showcases its Picodroplet Platform at ASHG 2016

Droplet Digital Technology Presented at ASHG 2016

Thermo Fisher scientific Launches NGM Detect Kit



Bioline accredited to the ISO 13485 Quality Standard Bioline Expands the SensiFAST family of real-time PCR products Thermo Fisher Scientific Partners with Hamilton Bonaduz AG Maxwell RSC PureFood GMO and Authentication Kit from Promega Bio-Rad Introduces an Assay website to identify or design Droplet Digital PCR Assays Roche receives FDA, CLIA waiver for cobas Influenza A/B & RSV test Renewal of Thermo Fisher Scientific and DuPont Nutrition & Health's Deal to Supply BAX System Q7 Platform Release of Bio-Rad's New ddPCR CHO and ddPCR E, coli Residual DNA Quantification Kits Bio-Rad's Droplet Digital PCR-Based Assay for Rapid and Cost-Effective Quantification of Genome-Editing Events BD Collaborated with Check-Points to Develop and Supply BD MAX Assays for CRO Detection Seegene to Launch Universal SG Fluorescence Oligo System Release of Bioline's New MyTaq Plant-PCR Kit US FDA Granted Emergency Use Authorization for Idylla Ebola Virus Triage Test First Prospective Clinical Trial of Liquid Biopsy Using ddPCR Validated the Use of cfDNA as a Predictive Diagnostic Tool Thermo Scientific SureTect Real-Time PCR Assays for Precise Detection of Molecular Pathogens Five New ddPCR Multiplex Mutation Screening Kits Launched by Bio-Rad New Thermo Scientific SureTect Cronobacter Species Real-Time PCR Assay to Aid Infant Formula Producers US FDA Approved cobas Zika test to Screen Blood Samples on the cobas 6800/8800 Systems COBAS AmpliPrep/COBAS TaqMan HCV Test, v2.0, the First Quantitative HCV RNA Test to Receive FDA Approval for Use as an Aid to Diagnose an Active HCV Infection New Three-Color Crystal Digital PCR System Launched by Stilla Technologies Unveiling of Bioline's EPIK miRNA Select Kits CE IVD Marking for Bio-Rad's QX200 Droplet Digital PCR System Thermo Scientific SureTect Escherichia coli O157:H7 PCR Assay Granted NF Validation Certificate by AFNOR Certification GE Healthcare to Set Up Headquarters in Chicago Milestone Reached by Qiagen with its Portfolio of Master Collaboration Agreements with Major Pharmaceutical Companies to Develop Companion Diagnostics Biocartis Joined Forces with Merck to Develop and Commercialize a New Liquid Biopsy **RAS Biomarker Test for mCRC Patients**

US FDA Approved Roche's cobas HIV-1 Viral Load Test for Use on the cobas



6800/8800 Systems

JetSeq DNA Library Preparation Kit, the First Product in a New Line of Kits from Bioline for NGS Sample Preparation

Roche Finalized the Acquisition of Kapa Biosystems

RainDance to Develop Ultra-Sensitive, Highly Precise and Low Cost NGS and Digital

PCR Methods in Collaboration with BSRI

Sigma-Aldrich Acquired by Merck

Addition of HIV-1, HCV and HCV GT Assays Broaden Roche's Available Menu on the cobas 4800 System

Roche's cobas HBV and cobas HCV viral load tests, the first assays with US FDA Approval for use on the cobas 6800 and cobas 8800 Systems

RIVM Selected Roche to Implement the cobas HPV Test as the First-Line, Primary

Screening Test in the National Cervical Cancer Screening Program

Release of Bio-Rad's One-Step RT-ddPCR Advanced Kit for Probes

Launch of Roche's First Oncology Assay Using Either Plasma or Tumour Tissue Samples

FDA CLIA Waiver Granted for Roche's cobas Influenza A/B Test for Use on the cobas Liat System

Seegene Joined Forces with BD for the Development of Multiplex Real-Time PCR Reagents for the BD MAX System

Release of Bioline's New EPIK miRNA Panel Assays

MHTP's Medical Genomics Facility to House Australia's First Single-Cell Genomics Centre of Excellence

FDA Approved Qiagen's therascreen EGFR Test as a Companion Diagnostic for Guiding the Use of AstraZeneca's IRESSA in Treating NSCLC Patients

MDRO Tests Developed by Fluidigm in Collaboration with OpGen

Seegene to Develop Multiplex assay panels menu for Qiagen's QIAsymphony RGA MDx Automation Platform

Hitachi High-Technologies Collaborated with Qiagen to Develop New Automation Systems Based on PCR and NGS Technologies

CE Marking Obtained by Beckman Coulter's DxN VERIS HCV Assay and DxN VERIS HIV-1 Assay

510(k) Clearance Received by Roche's cobas Cdiff Test

510(k) Clearance Received by Roche's cobas HSV 1 and 2 Test

Biocartis Collaborated with Fast-track Diagnostics to Develop a Range of Multiplex Infectious Disease Tests on its Idylla System

Seegene's Allplex Gastrointestinal Full Panel Assay Received CE-IVD Mark

US FDA Granted CLIA Waiver for Roche's cobas Strep A Test for Use on the cobas Liat System



Roche's cobas KRAS Mutation Test Received FDA Approval for Diagnostic Use DxN VERIS Molecular Diagnostics System Presented by Beckman Coulter at ECCMID in Denmark

RainDance Form Distribution Pacts to Meet the Increasing Demand for Liquid Biopsy Applications outside the US

An Integrated Multiplex Real-time PCR Assay for Bloodstream Infections Developed by Biocartis in Collaboration with Microbiome

BD MAX CT/GC/TV and CT/GC Assays Received CE Mark

Promega releases the PowerQuant System

Commercial availability of Roche's cobas DPX test for parvovirus B19 (B19V) and hepatitis A virus (HAV)

Roche launches cobas HBV assay and receives CE mark

Bio-Rad launches new PrimePCR Droplet Digital PCR (ddPCR) Assays

Bio-Rad Laboratories launches PrimePCR Assays for Real-Time PCR

SciLifeLab sets up Swedish national center for single-cell biology

Roche MRSA/SA Test receives FDA clearance

Qiagen secures additional EGFR pathway-related intellectual property licenses from Roche

Life Science Industry awards for Bio-Rad Protein Expression Products, Genomic Workflow Solutions

Bio-Rad launches ddPCR KRAS Screening Multiplex Kit

cobas TaqScreen MPX Test, v2.0 Receives FDA Approval

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- Abbott Molecular Inc. (United States)
- Agilent Technologies, Inc. (United States)
- Becton, Dickinson And Company (United States)

BD Biosciences, Systems and Reagents Inc. (United States)

Bio-Rad Laboratories, Inc. (United States)

Raindance Technologies, Inc. (United States)

Bruker Corporation (United States)

Complete Genomics, Inc. (United States)

Danaher Corporation (United States)



Beckman Coulter, Inc. (United States)

Fluidigm Corporation (United States)

Formulatrix, Inc. (United States)

Illumina Inc. (United States)

Epicentre (United States)

Promega Corporation (United States)

Roche Diagnostics Corporation (United States)

Sigma-Aldrich (United States)

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Biocartis NV (Belgium)

Bioline Reagents Limited (United Kingdom)

Dnavision SA (Belgium)

Eppendorf AG (Germany)

Exiqon A/S (Denmark)

F. Hoffmann-La Roche Ltd (Switzerland)

GE Healthcare Life Sciences (United Kingdom)

Merck KGaA (Germany)

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Ocimum Biosolutions Ltd. (India)

Shimadzu Corporation (Japan)

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