Polymerase Chain Reaction (PCR) Technologies and Global Markets

Description: This report includes:

- An overview of the global markets for polymerase chain reaction technologies and application
- Analyses of global market trends, with data from 2014, 2015, 2016 and projections of compound annual growth rates (CAGRs) through 2021
- Information on the PCR software market including primer design and sequencing software, PCR analyzer software, integrated software, and others
- Information on the PCR application market including research, diagnosis, and drug discovery
- Coverage of PCR instruments including buffers and deoxynucleotide triphosphates [dNTPs] (buffers, contamination control kits, dNTP mixes), controls and CDNAs, primers (real-time PCR primers, human linkage mapping sets, mouse mapping primers), PCR enzymes and kits (contamination control kits, general PCR, fast PCR, multiplex PCR, wax beads for hot start PCR, high-fidelity PCR kits and other kits), accessories, reaction plates, adhesive films and thermal cyclers
- Profiles of leading companies in the industry

This report focuses on the global market of PCR products and provides an updated review of the technology's basic design and its applications in the arenas of biomedical and life science research. The report covers the total market for PCR products, which includes instruments, reagents, consumables and accessories, software and services. The applications included are research applications, clinical applications and other applications (detection of pathogens like fungus and parasites in animals and plants). These categories are further subdivided into types, i.e., types of instruments. The report also covers the market of PCR products by technology, which includes thermal cyclers, real-time PCR, reverse transcriptase (RT) PCR, inverse and standard PCR, assembly and nested PCR, hot start and touchdown PCR, multiplex and other PCR. The reagent market includes individual reagents (such as buffers, dNTPs, controls templates, enzymes, primers and probes), master mixes and kits and other reagents such as PCR calibration kits and PCR cleanup kits. The consumables market includes plates and frames, PCR tubes, PCR sealers and plastics. The PCR software market includes primer design and sequencing software, PCR analyzer software, integrated software and others.

The scope of the study is global. BCC analyzes each market and its application, regulatory environment, new products and advancements, market projections and market shares. The geographical regions covered in the report are the U.S., Europe and emerging markets. The emerging market region covers countries such as India, China, Japan, Korea, Taiwan, Africa, Australia, New Zealand, Canada, etc.

Also included in the report are relevant patent analysis and profiles of leading PCR companies. The key players in this market are Thermo Fisher Scientific Inc., Agilent Technologies, Bio-Rad Laboratories Inc., Becton Dickinson & Co., Merck KGaA (Sigma Aldrich), Affymetrix Inc., F. Hoffmann-La Roche Ltd. and Qiagen N.V.

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