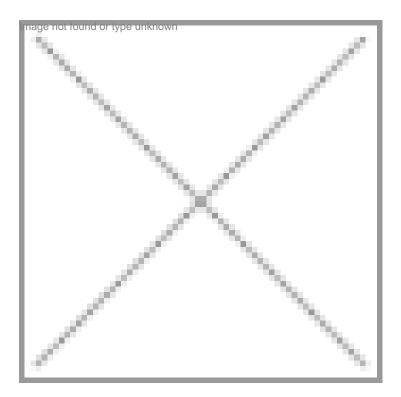


Market for Real-time PCRs soaring in India

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In India, Roche, Eppendorf, Applied Biosystems, Stratagene, Corbett and BioRad are a few companies offering real time PCRs to the researchers. Bio-Rad is a leader in the Real-time and PCR market. It has applications in biopharma companies and in CROs. Real time PCRs are available in the price range of \$20,000-60,000 per unit. According to industry estimates, about 65-70 systems are sold per year in India and the market is growing at the rate of 20-25 percent.

Anthantagais Kumar, assistant manager, marketing, Eppendorf India, said, "The present market for real time PCRs is about Rs 10 crore, growing at rate of 40-50 percent. And about 85-90 units of real time PCRs are sold per year in the country with 30 percent absorption in bipharma companies/institutes. These are available in the price range of Rs 10-30 lakh per unit."

The growepsyrendiarabiopsistector will continue to support the growth of real time PCRs market as these units offer many advantables while hare at these units offer many advantables while hare at these units offer many advantables as the second at the se

PCR collects data in the

PCR technologial growth phase

The PCR (Polymerase Chain Reaction) technique is a vital tool in many areas of science. It has revolutionized molecular biology APC Processes in the science research in which a segment of DNA or RNA is copied or "amplified" so that it can be the segment of DNA and DNA. Traditional PCR has advanced the segment of BNA and DNA. Traditional PCR has advanced the segment of BNA and DNA. Traditional PCR has advanced the segment of BNA and DNA. Traditional PCR has advanced the segment of BNA and DNA. Traditional PCR has advanced the segment of BNA and DNA. Traditional PCR has advanced to the segment of BNA and DNA. Traditional PCR has advanced to the segment of BNA and DNA. Traditional PCR has advanced to the segment of BNA and DNA. Traditional PCR has advanced to the segment of BNA and DNA. Traditional PCR has advanced to the segment of BNA and DNA.

number of amplicons

According to the chemistries allow for the detection of PCR amplification during the early phases of the reaction. Measuring the kinetics of the reaction in the early phases of PCR provides a distinct advantage over traditional PCR detection. Traditional methods use Agarose gels for detection of PCR amplification at the final phase or end-point of the PCR reaction. Real-tiffe themistry provides fast, precise and accurate results. Real-Time PCR is designed to collect data as the reaction results applification of an accurate for DNA and RNA quantitation and does not require laborious post PCR methods.

Amplicon

Hence Real-time PCR is a powerful and rapid technique for nucleic acid amplification. The accumulation of specific products in a reaction is monitored continuously during cycling. This is usually achieved by monitoring changes in fluorescence within the PCR tube. And real-time PCR enables the detection of amplified DNA during the process of amplification rather than at the end, providing greater accuracy in applications such as gene expression quantification and genotyping.

According to Raisti Chandrag marketing manager, molecular and cell biology, Labindia Instruments (Applied Biosystems Division), "Real-Time PCR system can be of use in carrying out drug development studies. Genes that code for drug metabolism enzymes are important targets for study in both drug development and clinical research, as they influence individualeteration (ois xempatible) organism ponse. Another use is in sterility testing. Pathogen detection is possible using TaqMan Pathogtena defection havings in the environment, as well as all ingredients that are used in developing the product. Many pharmaceutical companies use biological products as their ingredient. It is very important to determine that the final product does not contain residual DNA. Acceptable amount of residual host cell DNA in biological product is 100 pg per dose."

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Narayan Kulkarni

Applications

Real-Time PCR can be applied to traditional PCR applications as well as new applications that would have been less effective with traditional PCR. With the ability to collect data in the exponential growth phase, the PCR of has been expanded into applications such as: viral quantitation; quantitation gene expression; verification; drug therapy efficacy; DNA damage measurement; quality control and assay validation; pathogen detection; and genotyping

Source:

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