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## **Real Time Pcr Applications Guide**

Real-Time PCR  
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Amplification  
efficiency,  $E$ , is  
calculated from the  
slope of the standard  
curve using the  
following formula:  $E =$   
 $10^{-1/\text{slope}}$  Ideally, the  
amount of PCR product  
will perfectly double  
during each cycle of

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exponential  
amplification; that is,  
there will be a 2-fold  
increase in the number  
of copies with each  
cycle.

## **Real-Time PCR Applications Guide**

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Whether you're new to real-time PCR, also called quantitative PCR (qPCR), or want to learn about new applications for real-time PCR, we have the learning material, including videos and webinars, to help you understand the technology and get started quickly. Real-time PCR combines PCR amplification and detection into a single step.

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## **Real-Time PCR Basics | Thermo Fisher Scientific - US**

Real-Time PCR: Current Technology and Applications. A comprehensive guide to the most up-to-date real-time PCR technology and applications. The latest PCR platforms, fluorescent chemistries, validation software, data analysis, internal and

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external  
controls, clinical  
diagnostics,  
biodefense, RNA  
expression studies,  
validation of array  
data, mutation  
detection, food  
authenticity and  
legislation, NASBA,  
molecular halotyping.

## **Real-Time PCR: Current Technology and Applications**

Real-time PCR is a  
variation of the



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standard PCR technique that is commonly used to quantify DNA or RNA in a sample. Using sequence-specific primers, the number of copies of a particular DNA or RNA sequence can be determined. By measuring the amount of amplified product at each stage during the PCR cycle, quantification is possible.

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**Real-time PCR  
handbook - Thermo  
Fisher Scientific**

Real time PCR  
(quantitative PCR,  
qPCR) is now a well-  
established method for  
the detection,  
quantification and  
typing of different  
microbial agents in the  
areas of clinical and  
veterinary diagnostics  
and food safety.

**Frontiers | A Basic  
Guide to Real Time**

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## **Time Pcr Application Guide** **PCR in Microbial ...**

When designing a real-time PCR experiment a significant decision is choosing the correct detection chemistry for your application. There are two major options to choose from. Most people use either an intercalating dye (e.g. SYBR® Green) or a hydrolysis probe based detection solution (e.g. TaqMan®). Both technologies are designed to

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## **Beginner's Guide to Real-Time PCR - Primer Design**

Real-time PCR technology is an established powerful research tool used in many scientific disciplines and is also utilised for mainstream testing in the regulated markets such as food, veterinary and human in-vitrodiagnostics.

This essential manual provides both the

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novice and experienced user with an invaluable reference to a wide-range of real-time PCR technologies and applications and provides an overview of the theory of this increasingly important technique.

## **Real-Time PCR: Advanced Technologies and Applications**

real-time quantitative PCR (qPCR) and

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reverse transcription qPCR (RT-qPCR), offer simple methods for analysis of DNA and RNA molecules.

However, completing qPCR assays to a high standard of analytical quality can be challenging for a number of reasons, which are discussed in detail in this guide.

**Good practice guide  
for the application  
of quantitative ...**

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## Guide **(PDF) Real-Time PCR Applications Guide | tara jalal ...**

In multiplex, real-time PCR, several genomic DNA targets are quantified simultaneously in the same reaction.

Multiplex, real-time RT-PCR is a similar method, allowing simultaneous quantification of

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several RNA targets in the same reaction. The procedure can be performed either as two-step RT-PCR or as one-step RT-PCR.

## **PCR - QIAGEN**

A real-time polymerase chain reaction, also known as quantitative polymerase chain reaction, is a laboratory technique of molecular biology based on the polymerase chain



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reaction. It monitors the amplification of a targeted DNA molecule during the PCR, not at its end, as in conventional PCR. Real-time PCR can be used quantitatively and semi-quantitatively. Two common methods for the detection of PCR products in real-time PCR are non-specific fluorescent dyes that intercalate with any double-strand

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## **Real-time polymerase chain reaction - Wikipedia**

The qPCR Applications Guide is a comprehensive source of information on real-time PCR. Complete with detailed information on optimizing, validating, and analyzing real-time PCR data, this technically focused applications guide is a resource for experienced

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researchers as well as those wanting to learn more about using real-time PCR for ...

## **CFX96 Touch Real-Time PCR Detection System | Life Science ...**

Eco™ Real-Time PCR System User Guide  
INTENDED USE: The Eco Real-Time PCR System is intended to support the Real-Time polymerase chain reaction (PCR)

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application needs of life science researchers. This includes gene expression quantification and analysis as well as genotyping by allelic discrimination or high-resolution melting.

## **Eco Real-Time PCR System User Guide - Illumina**

Real-time quantitative PCR is being used in a growing number of

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research applications  
including gene  
expression  
quantification,  
expression profiling,  
single nucleotide  
polymorphism (SNP)  
analysis and allele  
discrimination,  
validation of  
microarray data,  
genetically modified  
organisms (GMO)  
testing, monitoring of  
viral load and other  
pathogen-detection  
applications.

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## **Introduction to Quantitative PCR - Agilent**

There are many different markers used in Real Time PCR but the most common of them include: Taqman probe. SYBR Green. Taqman Probe. It is a hydrolysis probe which bear a reporter dye, often fluorescein (FAM) at its 5' end and a quencher tetramethylrhodamine

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(TAMRA), attached to  
the 3' end of the  
oligonucleotide.

## **Real Time PCR- Principle, Process, Markers,**

## **Advantages, Uses**

Real-time qPCR Our  
real-time PCR and RT-  
PCR portfolio is one of  
the most advanced. A  
unique combination of  
in-process controls  
removes variables and  
errors and streamlines  
your work. Combine

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this with an unparalleled catalog of predesigned PCR assays and panels, plus the ability to customize your own using our advanced design algorithms.

### **PCR - qiagen.com**

Real-Time Polymerase Chain Reaction. Real time PCR offers a more advanced application in which an oligonucleotide probe is additionally added



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and hybridises  
between both primers  
(Logan et al., 2009).

From: Food Chain  
Integrity, 2011.

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