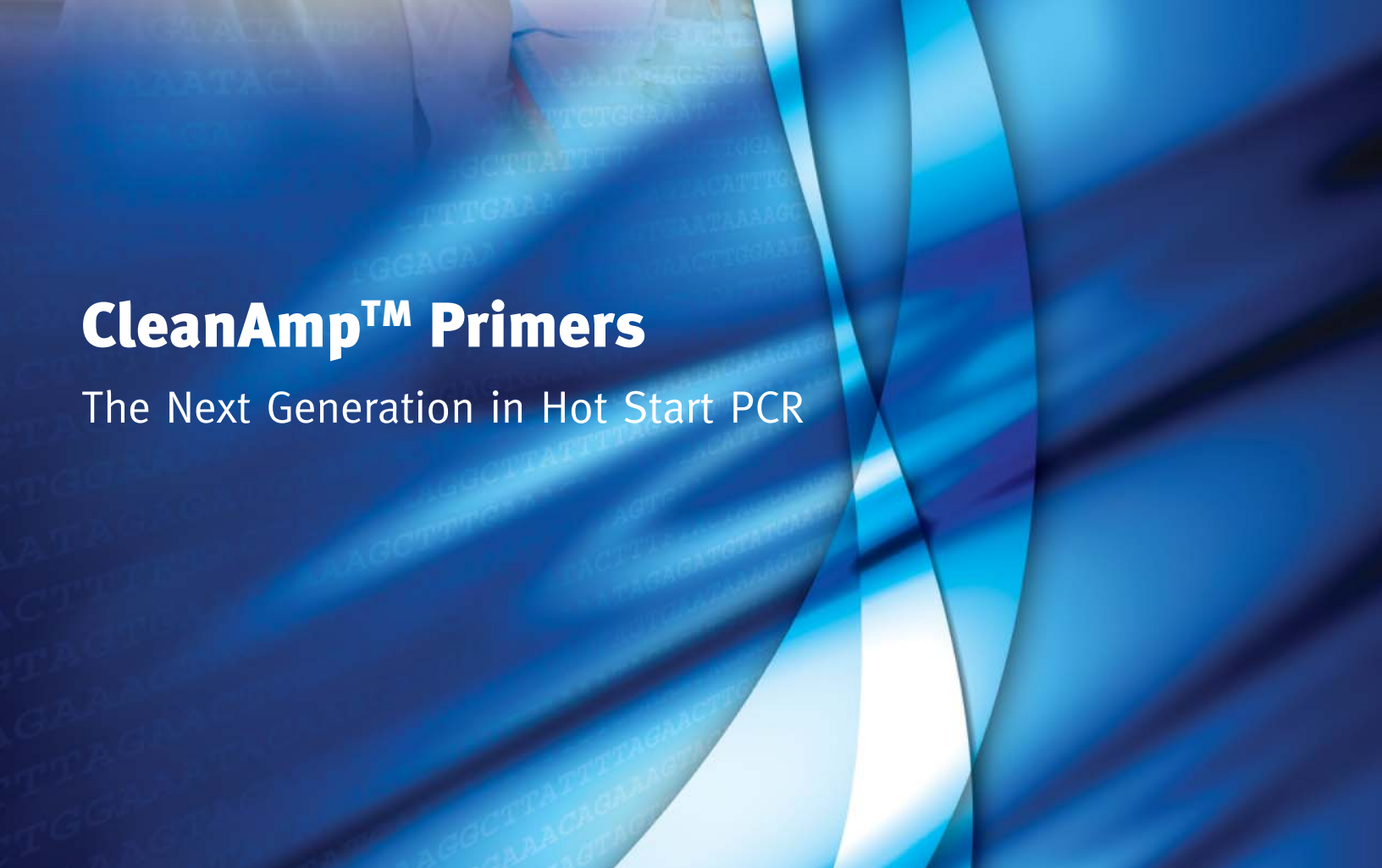




TriLink
BioTechnologies

CleanAmp™ Primers

The Next Generation in Hot Start PCR



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Novel Technology

CleanAmp™ Primers contain thermolabile chemical modifications that allow for primer-based “hot-start” activation in PCR. These modifications prevent primer extension at the lower temperatures of PCR set-up and manipulation. A “hot start” thermal activation step removes the modification and generates the corresponding unmodified primer, which supports amplification of the desired target. CleanAmp™ Primers specifically amplify your target by eliminating extension off of primer dimer (Fig. 1) and mis-priming (Fig. 2) events. Furthermore, CleanAmp™ Primers eliminate the need for Hot Start DNA polymerases because they are compatible with a number of standard DNA polymerases, such as Taq.

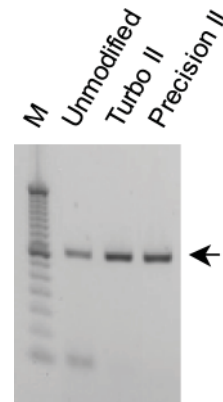


Figure 1: CleanAmp™ Primers improve PCR performance in a system prone to primer dimer formation. Both CleanAmp™ Turbo II and Precision II Primers improve the specificity of amplification, with Turbo II Primers providing the greatest amplicon yield.

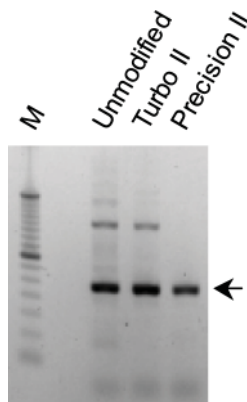


Figure 2: CleanAmp™ Primers improve PCR performance in a system prone to mis-priming. While CleanAmp™ Turbo II Primers provide a considerable reduction in off-target amplicon formation, CleanAmp™ Precision II Primers provide the highest level of reaction clean-up.

Versatile Applications

The different rates of release of CleanAmp™ Turbo II and Precision II Primer modifications can be exploited for improved results in downstream applications, such as multiplex PCR (Fig. 3), reverse-transcription PCR, low copy number detection (Fig. 4), and fast PCR. The performance of CleanAmp™ Primers can be applied to critical applications such as molecular diagnostics, forensics, detection of infectious agents and gene expression validation.

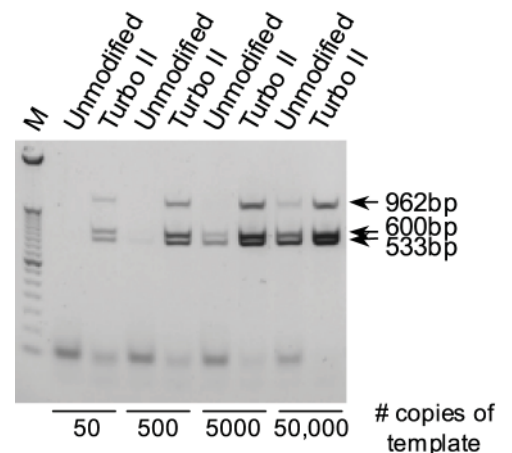


Figure 3: CleanAmp™ Turbo II Primers improve the limit of detection in a multiplex PCR experiment where three distinct amplicons are formed with high specificity over a wide range of input template concentrations.

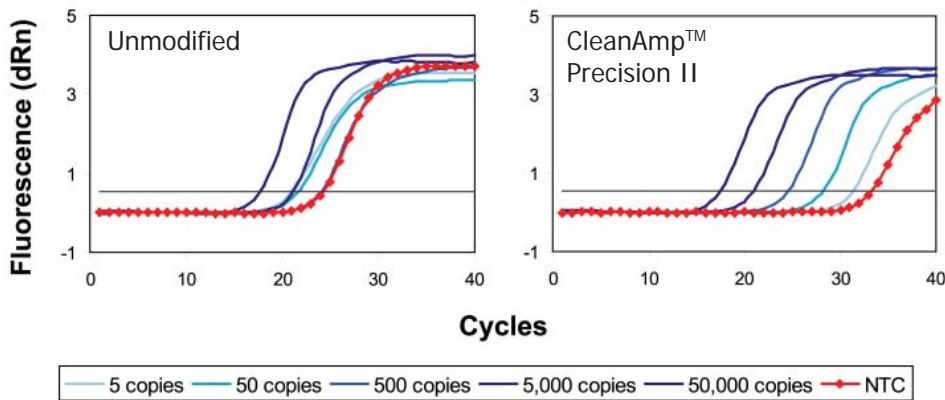


Figure 4: CleanAmp™ Precision II Primers improve SYBR® Green I-based real-time PCR detection. Reactions containing CleanAmp™ Precision II Primers greatly reduced the competing amplification of primer dimers, which were found to compromise the limit of detection in amplifications with unmodified primers.

Choose the Right Primer for You

CleanAmp™ Primers are available in two forms that differ in the rate of thermal activation. CleanAmp™ Turbo II Primers activate more quickly than CleanAmp™ Precision II Primers. The differential rate of activation of the two product types is beneficial for different applications and PCR needs:

CleanAmp™ Turbo II Primers

- Fast cycling (<45 min. total cycling time)
- Multiplexed PCR
- Improved amplicon yield
- Reduced mis-priming/primer dimer formation

CleanAmp™ Precision II Primers

- Standard cycling (>45 min. total cycling time)
- Reverse-transcription PCR
- Improved specificity and limit of detection
- Greatest reduction in mis-priming/primer dimer formation

Novel Primers with Expected TriLink Quality

TriLink has over 11 years of experience in making specialty modified oligonucleotides. We have perfected an HPLC purification process that ensures your CleanAmp™ Primers will be the highest quality, with QC analysis by MS, HPLC and PAGE. Whether you are developing a kit or researching gene targets, choosing CleanAmp™ Primers means you can:

- Introduce CleanAmp™ Primer modifications into any sequence.
- Depend on a guaranteed 10-15 OD yield from every synthesis.
- Scale-up to commercially viable amounts.
- Choose between our HPLC-purified and our lower-priced cartridge purified options.
- Receive primers in a high concentration stock solution measured for accuracy.
- License the technology at reasonable rates.

See for Yourself!

To determine if CleanAmp™ Primers match your product development needs, we encourage you to test a set of primers and see the results for yourself. Introductory pricing is available, please inquire.



TriLink BioTechnologies is an industry leader in manufacturing high quality oligonucleotides and nucleoside triphosphates at small and mid-scales.

TriLink operates a GMP laboratory with a QSR environment and provides:

- Milligram to multi-gram synthesis
- Highly-modified oligonucleotides and nucleosides
- Custom chemistry
- Contract research services
- Radiolabeling services
- Industry-leading technical support

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