

# Perfect Amplification



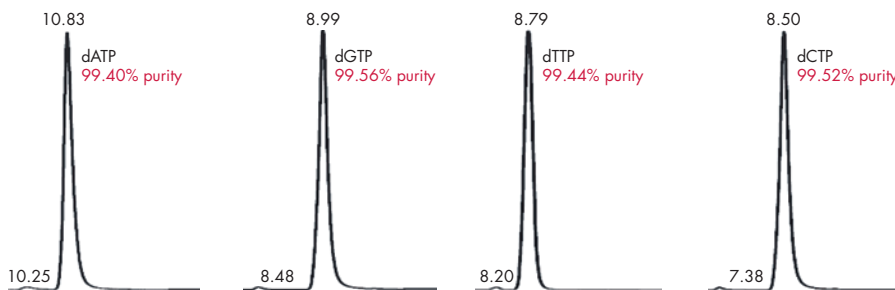
**peqGOLD PCR Reagents**

best quality  
highest purity  
reliable results

# peqGOLD nucleotide sets and mixes

reliable

peqGOLD dNTP sets and mixes are synthetically manufactured using premium starting materials, dissolved and stabilised for long-term storage. peqGOLD dNTPs are certified free of exo- and endonucleases, proteases, phosphatases and RNases. Additional testing confirms the absence of ddNTPs, which can lead to premature termination of the PCR reaction. peqGOLD dNTPs ensure the best quality results even in sophisticated PCR set ups.



HPLC analysis of peqGOLD dNTPs

## peqGOLD dNTP sets

- Complete sets of dATP, dCTP, dGTP and dTTP
- Individually dissolved and bottled
- Concentration of 100 mM each

## peqGOLD dNTP mixes

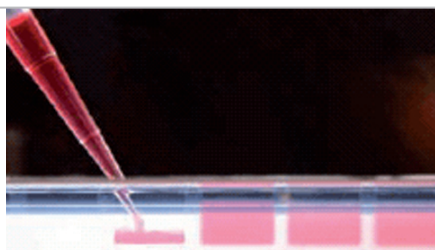
- Ready to use mixes containing dATP, dCTP, dGTP and dTTP
- Final concentration of 40 mM (10 mM of each nucleotide)

results

# Enzymes of unrivalled quality for all PCR applications

## peqGOLD *Taq*-DNA-Polymerases

peqGOLD *Taq*-DNA-Polymerases are produced and purified according to very exactly defined guidelines. Intensive and rigorous quality controls ensure highest quality and best batch-to-batch consistency. All peqGOLD *Taq*-DNA-Polymerases include 2 reaction buffers (S for high specificity and Y for high yield), separate  $MgCl_2$  for reaction optimization and a PCR Enhancer solution for hard to amplify templates.



◀ peqGOLD 'Control' *Taq*-DNA-Polymerase:  
Direct loading of an agarose gel with an aliquot  
of the PCR reaction.

### peqGOLD *Taq*-DNA-Polymerase

- Traditional *Taq*-DNA-Polymerase
- High processivity and specificity
- Ideal for all standard PCRs

### peqGOLD *Taq* 'all inclusive'

- The convenient solution:  
peqGOLD *Taq*-DNA-Polymerase and  
dNTP mix as separate components  
together in one kit

### peqGOLD 'Hot' *Taq*-DNA- Polymerase

- Antibody inhibited 'Hot' Start *Taq*
- Fully activated after 30 sec at  
94 °C
- Highest specificity

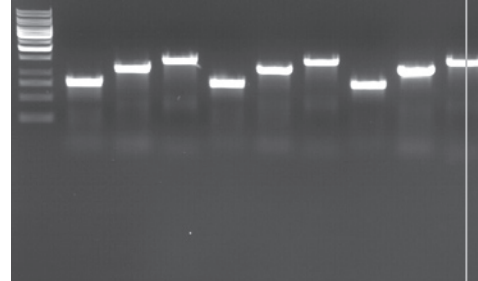
### peqGOLD 'Control' *Taq*-DNA- Polymerase

- *Taq*-DNA-Polymerase with an inert  
red dye
- Quick recognition and confirmation  
of appropriate mixing
- No loading buffers or tracking dyes  
necessary

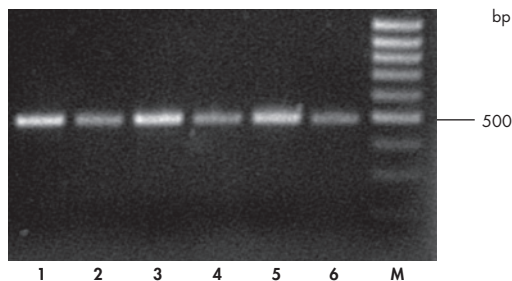
highest quality

enzymes

# highest



## peqGOLD 'ready-to-use' PCR-Master-Mixes



Prepared in 2x concentration, peqGOLD PCR-Master-Mixes contain an optimized mix of reaction buffer and nucleotides in addition to the approved peqGOLD *Taq*-DNA-Polymerase. The Y mixes contain specifically optimised  $MgCl_2$  concentrations for outstanding high yields. The S Mixes are optimised for high specificity PCRs. All peqGOLD Master-Mixes are designed for convenient handling, reduced risk of contamination and ensure the highest level of reproducibility.

High stability of peqGOLD Master-Mix Y at different storage conditions. Amplification of a 500 bp fragment from 1 ng (lane 1,3,5) or 0.5 ng (lane 2,4,6) template DNA with the peqGOLD Master-Mix Y. Lane 1 & 2: After storage at 4 °C; Lane 3 & 4: After storage at -20 °C; Lane 5 & 6: After 40 freeze and thawing cycles. M: peqGOLD 100 bp DNA-Ladder.

## highest reproducibility easiest handling

### peqGOLD PCR-Master-Mix Y or S

- 2x Master-Mix containing the dependable peqGOLD *Taq*-DNA-Polymerase
- Ideal for all standard PCR reactions

### peqGOLD Red-Master-Mix Y or S

- 2x Master-Mix containing peqGOLD 'Control' *Taq*-DNA-Polymerase
- The inert red dye of the mix allows direct loading to agarose gels after PCR

### peqGOLD Hot Start-Mix Y or S

- 2x Master-Mix containing peqGOLD 'Hot' *Taq*-DNA-Polymerase
- Antibody inhibited 'Hot' Start *Taq* for all PCR reactions where a high specificity is particularly desirable

### peqGOLD Hot Start-Mix 'Real Time'

- 2x Master-Mix containing the peqGOLD 'Hot' *Taq*-DNA-Polymerase
- Specifically optimized for 'real time' applications
- Offers high sensitivity and specificity

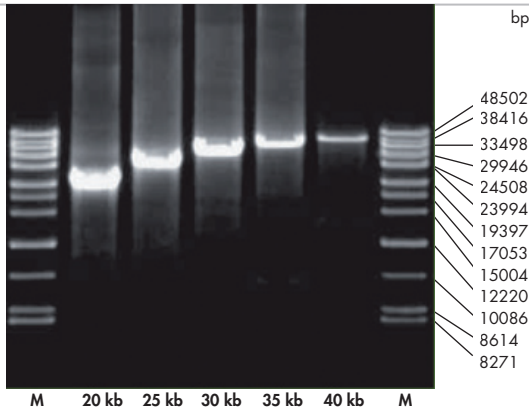
# reproducibility



# peqGOLD Polymerases with 'proofreading' activity

## peqGOLD Pwo-DNA-Polymerase

- DNA-Polymerase with high processivity
- Low error rate through 'proofreading' activity
- High thermo stability
- For 'blunt-end' cloning



## peqGOLD 'Mid-Range' PCR-System

- Specific PCR system to amplify PCR products with lengths up to 12 kb
- Outstanding high yields
- Minimized mismatches
- For 'blunt-end' or TA cloning

Amplification of long PCR fragments with peqGOLD dNTPs and the peqGOLD 'Long-Range' PCR-System. M: DNA standard

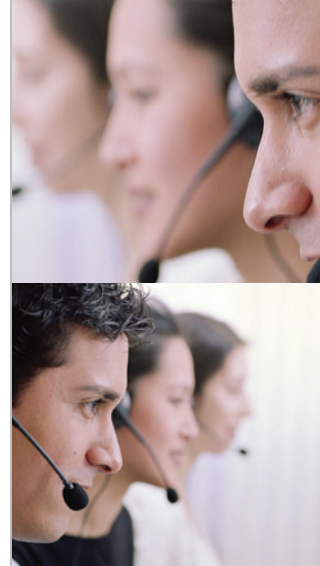
## peqGOLD 'Long-Range' PCR-System

- Specific PCR system to amplify PCR products with lengths up to 40 kb
- Outstanding high yields
- Minimized mismatches
- For 'blunt-end' or TA cloning

**lowest error rates for  
high fidelity PCR applications**

## Our Service Pledge

- Information, quotations or free of charge samples on request
- Personal and professional support through our application hotline and local field representatives
- Rapid delivery times



Ordering Informationen		
Item	Description	Product Code
<b>dNTP-Set (dATP, dCTP, dGTP, dTTP; je 100 mM)</b>	je 250 µl/je 1 ml/je 5 x 1 ml	20-2010/-11/-12
<b>dNTP-Mix (dATP, dCTP, dGTP, dTTP; je 10 mM)</b>	200 µl/1 ml/5 x 1 ml	20-3010/-11/-12
<b>Taq-DNA-Polymerase</b>	100 u/250 u/4 x 250 u	01-1010/-20/-30
<b>Taq 'all inclusive'</b>	250 u/4 x 250 u	01-1000/-01
<b>'Hot' Taq-DNA-Polymerase</b>	100 u/250 u/4 x 250 u	01-8110/-20/-30
<b>'Control' Taq-DNA-Polymerase</b>	100 u/250 u/4 x 250 u	01-2110/-20/-30
<b>PCR-Master-Mix Y</b>	5 x 1.25 ml/20 x 1.25 ml	01-1310/-20
<b>PCR-Master-Mix S</b>	5 x 1.25 ml/20 x 1.25 ml	01-1410/-20
<b>Red-Master-Mix Y</b>	5 x 1.25 ml/20 x 1.25 ml	01-1710/-20
<b>Red-Master-Mix S</b>	5 x 1.25 ml/20 x 1.25 ml	01-1810/-20
<b>Hot Start-Mix Y</b>	5 x 1.25 ml/20 x 1.25 ml	01-1510/-20
<b>Hot Start-Mix S</b>	5 x 1.25 ml/20 x 1.25 ml	01-1610/-20
<b>Hot Start-Mix 'Real Time'</b>	5 x 1.25 ml/20 x 1.25 ml	01-1910/-20
<b>Pwo-DNA-Polymerase</b>	100 u/5 x 100 u	01-5010/-20
<b>'Mid-Range' PCR-System</b>	100 u/ 250 u/ 2 x 250 u	02-2010/-20/-30
<b>'Long-Range' PCR-System</b>	100 u/ 250 u/ 2 x 250 u	02-3010/-20/-30

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