

DTI CobaltAmp HiFid Taq HS Premix

Blue color dye added high
fidelity PCR Master Mix

Hot-start blue dye added PCR master mix

DTI CobaltAmp HiFid Taq HS Premix is designed for fast, streamlined PCR, and is, therefore, ideal for applications such as colony PCR. It contains a hot-start PCR enzyme, optimized buffer, dNTPs, along with a blue gel-loading dye and density reagent, in a convenient 2X premix format.

Reactions are assembled by simply mixing primers and DNA template with DTI CobaltAmp HiFid Taq HS Premix. For rapid and convenient screening, the amplification reactions can be loaded directly onto an agarose gel immediately after amplification without purification, or digested directly with restriction enzymes.

For E. coli-based colony PCR, inserts up to ~5 kb in length are easily screened; colony PCR can be performed in about an hour.

For human genomic DNA, amplification of 2-kb targets can be completed in one hour; amplifications of up to 6 kb are possible.



Made in India

Application

- Hot-start PCR
- Colony PCR
- Fast PCR

Want to know more?
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Why Choose DTI Brand ?

DTI is our new in-house brand, we are manufacturing products in India, where we can design products for you and deliver them to you at affordable prices.



ISO 9001
certification



Quick Turn around time



Affordable Price



Strict temperature
Control



Product
customization

Specifications

- Hot-start PCR master mix is optimized for fast PCR
- Colony PCR can be completed in half the time required for conventional Taq DNA polymerase
- Convenient protocol eliminates purification steps with no reduction in yield
- Restriction enzyme digestion of the PCR products can be performed directly in the PCR buffer
- Reactions can be directly loaded onto a gel without purification or the addition of other reagents

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Speed up Colony PCR with DTI CobaltAmp HiFid Taq HS Premix

DTI CobaltAmp HiFid Taq HS Premix is fast—with an extension speed of 10 seconds/kb, reactions can be completed in half the time of conventional Taq. SapphireAmp master mix is also significantly faster than dye-added premixes offered by other manufacturers. The table below lists reaction times for DTI CobaltAmp HiFid Taq HS Premix and the recommended reaction times for two other commercially available dye-added premixes.

Amplicon length	DTI CobaltAmp HiFid Taq HS Premix	Company P dye-added master mix	Company T dye-added master mix
0.5 kb	50 min	1 hr 35 min	1 hr 30 min
1.0 kb	55 min	1 hr 50 min	1 hr 45 min
2.0 kb	1 hr	2 hr 20 min	2 hr 15 min
4.0 kb	1 hr 30 min	3 hr 20 min	3 hr 15 min

Using DTI CobaltAmp HiFid Taq HS Premix to screen a cDNA library by colony PCR

E. coli cells were transformed with a mouse cDNA library (insert size from 0.5 to 5 kb) ligated into pUC118. Plasmid-containing transformants were analyzed using DTI CobaltAmp HiFid Taq HS Premix and M4 and RV primers (see Methods below). The PCR reaction cycle was complete in just 70 minutes, and excellent yields were obtained. All 16 clones checked were confirmed to contain 0.5- to 5-kb inserts.

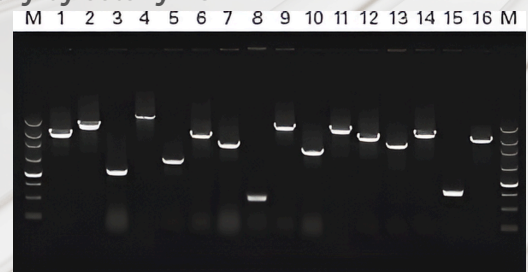


Figure 1. Colony PCR with DTI CobaltAmp HiFid Taq HS Premix

Product	Cat. No.	Pack size
DTI CobaltAmp HiFid Taq HS Premix	DT0203.80	80 Reactions
	DT0203.320	320 Reactions

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