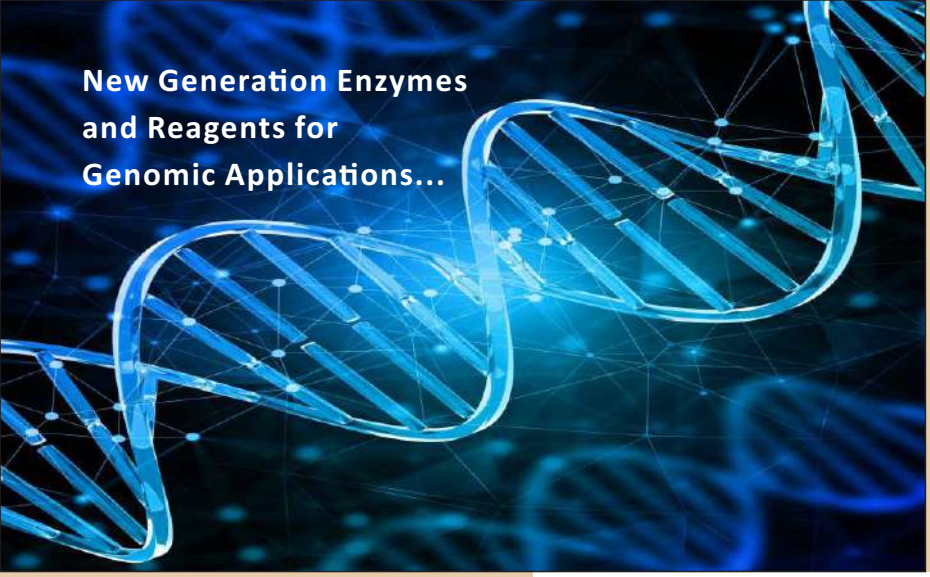


GeNei™
Since 1989

2X NeoTaq Master Mix

Features

- Robust amplification with high yields of PCR product.
- Minimal optimization due to uniquely formulated buffer.
- High functional activity.
- Enhanced efficiency, specificity, and sensitivity.
- Amplification of long targets up to 6.4kb from genomic DNA.

Applications

- End point PCR with low copy targets.
- Amplification from multiple template sources.
- Multiplex primer reaction.
- High throughout PCR Procedures.

Quality Control Assays

- Nuclease assays: No detectable endonuclease, exonuclease and RNase activity.
- *E. coli* Host contamination: No *E. coli* DNA contamination was detected in qPCR with specific primers targeting 16S rRNA gene.
- Functional Assay: NeoTaq master tested extensively for its reproducible performance in critical PCR amplifications.

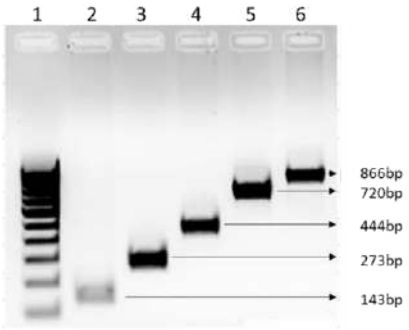
Product Description

2X NeoTaq master mix is a ready-to-use reaction mix optimized for routine PCR applications. It contains high quality NeoTaq DNA polymerase, dNTPs, MgCl2, enhancers and stabilizers. All the reagents required for PCR (except template and primer) is at optimal concentrations without the need of additional optimization step. 2X NeoTaq master mix efficiently amplifies a wide range of DNA templates for most of the PCR applications.

Characterization Studies

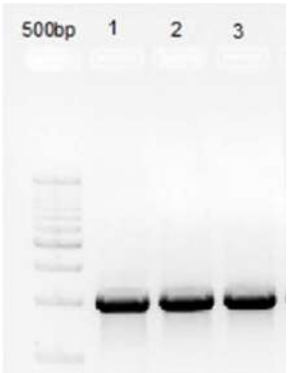
➢ **Consistent yields of PCR product**

E. coli genomic DNA were amplified using 2x NeoTaq master mix and equal volumes of PCR products were analyzed on agarose gel. Lane 1: Ladder; Lane 2-6: Respective PCR product.



➢ **Tolerance of variable magnesium ions.**

PCR amplifications was performed using 2X NeoTaq master mix with different concentrations of magnesium ions using E. coli genomic DNA. PCR products were analyzed on agarose gel.



Lane 1: Ladder; Lane 2: 2mM MgCl2; Lane 3: 3mM MgCl2 Lane 4: 4mM MgCl2

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Advantages

- Reduce the risk of contamination from multiple pipetting steps.
- Decreases assay set up time.
- Consistent reaction-to-reaction performance.

ISO9001:2015

ISO13485:2016

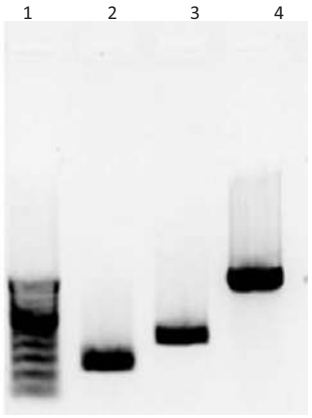
Contact us

Genei Laboratories Pvt Ltd.

No.6, 6th Main
BDA Industrial Suburb
Near SRS Road, Peenya - 560058
+91-080 2839 6894
+91-080 2839 1453
techsupport@geneilabs.com
info@geneilabs.com
sales@geneilabs.com
www.geneilabs.com

➢ Specific amplification with different sources

Three differently sized products from genomic DNA were amplified from multiple template sources using inhouse and commercial 2x PCR master mix. Only 10% of each reaction was loaded on the gel. M: Marker.

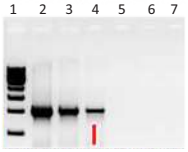


Lane 1: Ladder; Lane 2: Human gene(230bp); Lane 3: Plant gene(300bp); Lane 4: E. coli gene(1kb)

Benchmarking studies: *Thermal inactivation (97.5°C)*

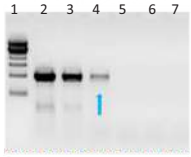
2X NeoTaq Master mix is tested for its thermal inactivation property and found to be best among the 3 commercials.

NeoTaq master mix



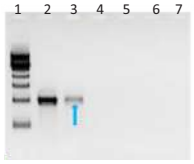
Lanes	Samples
Lane 1	500bp Ladder
Lane 2	0min
Lane 3	2min
Lane 4	5min
Lane 5	10min
Lane 6	30min
Lane 7	1hr

Commercial 1



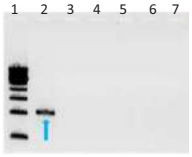
Lanes	Samples
Lane 1	500bp Ladder
Lane 2	0min
Lane 3	2min
Lane 4	5min
Lane 5	10min
Lane 6	30min
Lane 7	1hr

Commercial 2



Lanes	Samples
Lane 1	500bp Ladder
Lane 2	0min
Lane 3	2min
Lane 4	5min
Lane 5	10min
Lane 6	30min
Lane 7	1hr

Commercial 3



Lanes	Samples
Lane 1	500bp Ladder
Lane 2	0min
Lane 3	2min
Lane 4	5min
Lane 5	10min
Lane 6	30min
Lane 7	1hr

Ordering Information

Component	Cat #	Cat #	Cat #

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