

Certificate of Analysis

GoTaq® Long PCR Master Mix 2X

Part# AX676A

Lot# 0000338229

This product is dispensed from bulk lot# 0000325454.

Part#	Name
AX676A	GoTaq® Long PCR Master Mix 2X

Description: GoTaq® Long PCR Master Mix is a ready-to-use solution for amplification of PCR targets over 5kb in length. This master mix is formulated to amplify targets up to 30kb for human genomic DNA and up to 40kb for lambda targets. GoTaq® Long PCR Master Mix contains an optimized buffer, dNTPs, MgCl₂ and an optimized hot-start enzyme blend of GoTaq® Hot Start Polymerase and a proprietary proofreading polymerase.

Storage Conditions: Store at -30°C to -10°C.

Quality Control Assays

This lot passes the following Quality Control specifications:

Amplification of 17.5kb Target: A distinct 17.5kb band must be detected by agarose gel electrophoresis after amplification from 2ng of human genomic DNA template, with no amplification in no-template control lanes.

Amplification of 30kb Target: A distinct 30kb band must be detected by agarose gel electrophoresis after amplification from 200ng of human genomic DNA template, with no amplification in no-template control lanes.

Nuclease Activity: The GoTaq® Long PCR Master Mix is incubated at a 1X concentration in the presence of 1 µg lambda DNA to detect the presence of endonuclease activity and with 1 µg of lambda/HindIII markers to detect the presence of exonuclease activity. Following incubation, the DNA is visualized on an ethidium bromide-stained agarose gel to verify the absence of visible endonuclease and exonuclease activity.

Signed by:



R. Wheeler, Quality Assurance

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Promega

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GoTaq is a registered trademark of Promega Corporation.

Barnes, W.M. (1994) PCR amplification of up to 35-kb DNA with high fidelity and high yield from lambda bacteriophage templates. *Proc. Natl. Acad. Sci. USA* **91**, 2216-20.

U.S. Pat. No. 6,242,235, Australian Pat. No. 761757, Canadian Pat. No. 2,335,153 and other patents and patents pending.

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