



# “Directly Load PCR Products onto Gels” OneTaq<sup>®</sup> Quick-load<sup>®</sup> DNA Polymerases

NOW AVAILABLE  
AT MEDSTORE

**OneTaq<sup>®</sup> Quick-Load<sup>®</sup> DNA Polymerase** is an optimized blend of *Taq* and Deep Vent<sup>®</sup> DNA polymerases for use with routine and difficult PCR experiments. The 3′→5′ exonuclease activity of Deep Vent DNA Polymerase increases the fidelity and robust amplification of *Taq* DNA Polymerase. **OneTaq<sup>®</sup> Quick-Load<sup>®</sup> DNA Polymerase** contains OneTaq<sup>®</sup> enzyme, 5x OneTaq<sup>®</sup> Standard Buffer and 5x OneTaq<sup>®</sup> Quick-Load<sup>®</sup> Reaction Buffer. The optional **OneTaq<sup>®</sup> Quick-Load<sup>®</sup> Reaction Buffer** imparts a green colour to samples, enabling fast evaluation of results and a way to visually track progress during electrophoresis. The Quick-Load<sup>®</sup> Reaction Buffer includes two commonly used tracking dyes, Xylene Cyanol FF and Tartrazine. Both dyes are present in concentrations that do not mask co-migrating DNA bands. The convenient **OneTaq<sup>®</sup> Quick-load<sup>®</sup> 2x Master Mix** formulation contains dNTPs, MgCl<sub>2</sub>, buffer components and stabilizers as well as the two tracking dyes. With these convenient formats, the addition of primers and template are all that is required for robust amplification.

PRODUCT	NEB#	LIST PRICE	PROMOTIONAL PRICE*
OneTaq <sup>®</sup> Quick-Load <sup>®</sup> DNA Polymerase	M0509S - 100 units	<del>\$33</del>	<b>\$19.80</b>
	M0509L - 500 units	<del>\$122</del>	<b>\$73.20</b>
	M0509X - 2,500 units	<del>\$480</del>	<b>\$288.00</b>
OneTaq <sup>®</sup> Quick-Load <sup>®</sup> 2X Master Mix with Standard Buffer	M0486S - 100 rxns	<del>\$58</del>	<b>\$34.80</b>
	M0486L - 500 rxns	<del>\$256</del>	<b>\$153.60</b>
OneTaq <sup>®</sup> Hot Start Quick-Load <sup>®</sup> 2X Master Mix with Standard Buffer	M0488S - 100 rxns	<del>\$98</del>	<b>\$58.80</b>
	M0488L - 500 rxns	<del>\$443</del>	<b>\$265.80</b>

## Advantages of OneTaq<sup>®</sup> DNA Polymerase Enzymes

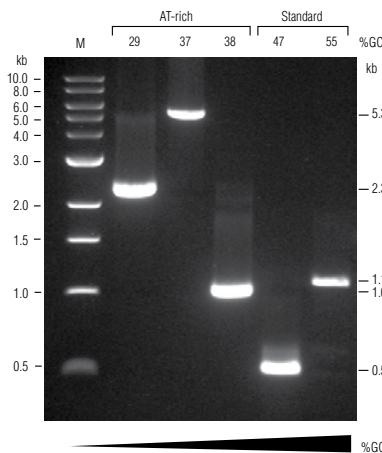
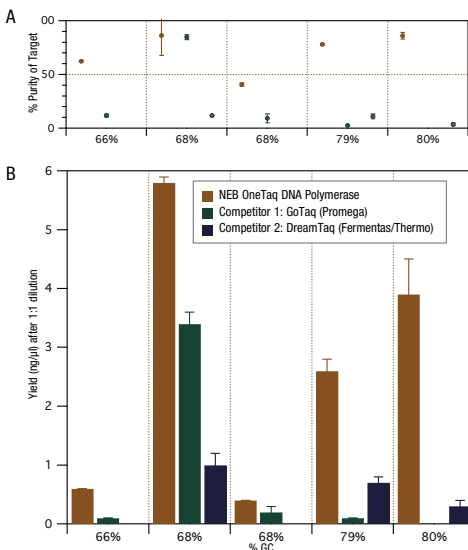
- Blend of *Taq* and Deep Vent, optimized for robust amplification across the broadest range of templates with minimal optimization
- Fidelity is 2x that of *Taq* DNA polymerase
- Quick-Load Reaction Buffer allows for direct loading of PCR product onto gels, easy visualization
- OneTaq Quick-Load DNA polymerase comes with colourless reaction buffer as well
- Compatible with standard *Taq* protocols
- Exceptional performance in endpoint PCR
- Master Mixes are for 50 µl reaction volumes

## Advantages of OneTaq's aptamer-based hot start technology

- Room temperature reaction set-up
- No separate activation incubation required
- Polymerase retains high specific activity

## Applications for OneTaq<sup>®</sup>

- High Sensitivity PCR
- High Throughput PCR
- Routine PCR
- Genotyping
- AT-rich PCR
- GC-rich PCR
- Colony PCR
- Long PCR (up to ~6 kb genomic)



Amplification of a selection of sequences with varying GC content from human and *C. elegans* genomic DNA using OneTaq DNA Polymerase. Amplicon sizes are indicated next to gel, and GC content is indicated above gel. Marker M is the 1 kb DNA Ladder (NEB #N3232).

Amplification of a selection of high GC human genomic DNA templates demonstrates OneTaq performance. PCR experiments included 30 amplification cycles. Purity (A) and Yield (B) were calculated via microfluidic analysis from triplicate reactions. Competitor polymerases were cycled according to manufacturer's recommendations.

\*TERMS & CONDITIONS: Offer valid in Canada only. Expires April 30<sup>th</sup>, 2018. Discount is eligible for products listed on this flyer. Promotion not valid for cash or cash equivalent towards purchase(s). No substitutions. Offer may not be applied to existing, pending or prior orders. Cannot be combined with any other promotion or discount.

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