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Luna® Universal qPCR Master Mix



One product per application
simplifies selection

Convenient 2x master mix formats and
user-friendly protocols simplify reaction setup

Unique passive reference dye that
is compatible across a variety of
instrument platforms

Mixes contain dUTP to enable carryover
prevention when reactions are treated
with NEB's Antarctic Thermolabile UDG

Non-interfering, visible tracking dye
helps to eliminate pipetting errors



Experience Best-In-Class Performance

- All Luna® products have undergone rigorous testing to optimize specificity, sensitivity, accuracy and reproducibility
- Products perform consistently across a wide variety of sample sources
- A comprehensive evaluation of commercially-available qPCR and RT-qPCR reagents demonstrates superior performance of Luna products



To Request a Sample Visit:
www.neb.ca/special-offers

Luna® Universal qPCR Master Mix:

M3003S	2x 1 ml	\$169	\$99
M3003L	5x 1 ml	\$379	\$199
M3003X	10x 1 ml	\$699	\$359
M3003E	1x 25 ml bottle	\$1,482	\$739

Luna® Universal Probe qPCR Master Mix:

M3004S	2x 1 ml	\$159	\$99
M3004L	5x 1 ml	\$355	\$199
M3004X	10x 1 ml	\$615	\$359
M3004E	1x 25 ml bottle	\$1,366	\$739

Order today! Visit: www.neb.ca/luna-promotion

***TERMS & CONDITIONS:** Offer valid in Canada only. Expires September 30th, 2022. Discount is eligible for products listed on this flyer. Purchase can be made online at www.neb.ca or through a NEB freezer program. Eligible products get discounted automatically when added to cart. 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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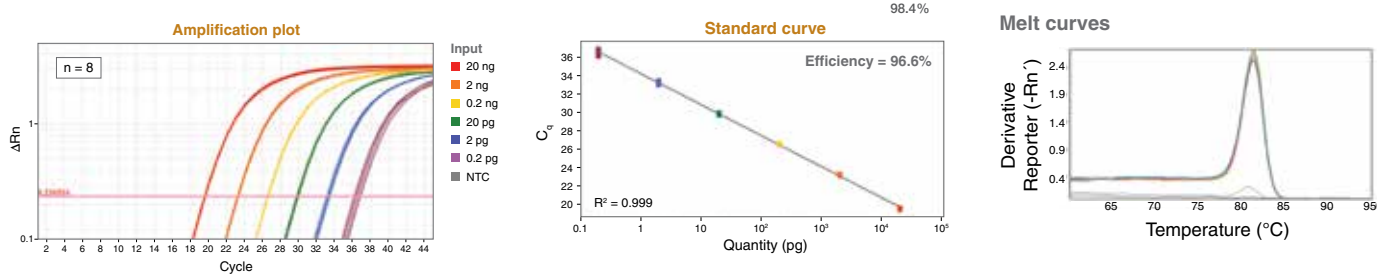
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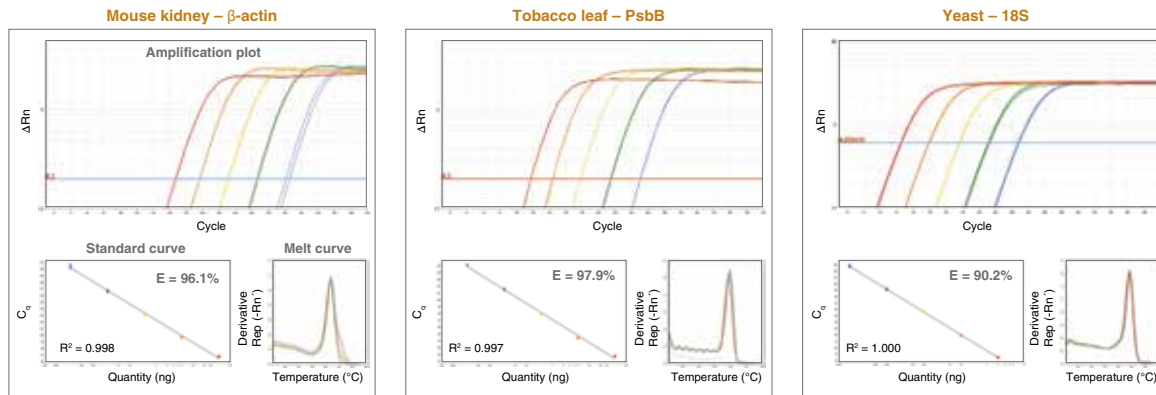
be INSPIRED
drive DISCOVERY
stay GENUINE

NEB's Luna Universal qPCR Master Mix offers exceptional sensitivity, reproducibility and qPCR performance



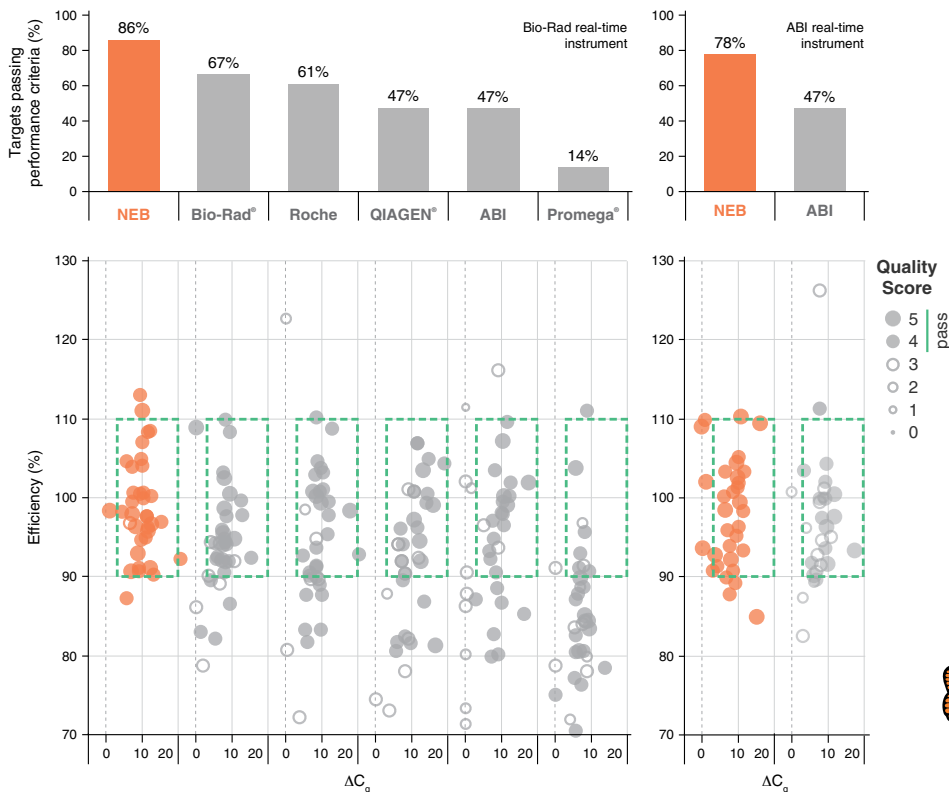
qPCR targeting human GAPDH was performed using the Luna Universal qPCR Master Mix over a 6-log range of input template concentrations (20 ng – 0.2 pg Jurkat-derived cDNA) with 8 replicates at each concentration. cDNA was generated from Jurkat total RNA using the NEB Protoscript® II First Strand cDNA Synthesis Kit (NEB #E6560).

NEB's Luna Universal qPCR Master Mix provides sensitive and accurate detection and quantitation across a wide variety of DNA sources



The Luna Universal qPCR Master Mix is compatible with a broad range of genomic DNA sources. qPCR targets were quantitated with 50 ng – 0.5 pg genomic DNA as input using an ABI 7500 Fast real-time instrument. Genomic DNA was purified by typical column-based methods. In these examples, strong performance can be observed in the amplification of ACTB (encoding β -actin) from Mouse kidney genomic DNA, psbB (Photosystem II CP47 reaction center protein PsbB) from Tobacco, and RDN18 (18S ribosomal RNA) from Yeast.

Extensive performance evaluation of commercially available dye-based qPCR reagents demonstrates the robustness and specificity of Luna



qPCR reagents from NEB and other manufacturers were tested across 16–18 qPCR targets varying in abundance, length and %GC, using either Jurkat genomic DNA or Jurkat-derived cDNA as input (10 genomic DNA targets and 8 cDNA targets on a Bio-Rad real-time instrument, 9 genomic and 7 cDNA targets on an ABI instrument). For each testing condition, data was collected by 2 users and according to manufacturer's specifications. Results were evaluated for efficiency, low input detection and lack of non-template amplification (where ΔC_t = average C_t of lowest input – average C_t of non-template control). In addition, consistency, reproducibility and overall curve quality were assessed (Quality Score). Bar graph indicates % of targets that met acceptable performance criteria (indicated by green box on dot plot and Quality Score > 3). Results for NEB and other major manufacturers are shown: Bio-Rad, SsoAdvanced™ Universal SYBR® Green Supermix; Roche, FastStart™ SYBR Green Master; QIAGEN, QuantiTect® SYBR Green PCR Kit; ABI, PowerUP™ SYBR Green Master Mix; Promega, GoTaq® qPCR Master Mix. NEB's Luna Universal qPCR Master Mix outperformed all other reagents tested.



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