lucigen.com/pcr



## OmniAmp® RNA & DNA LAMP Kit

## One Step RNA or DNA LAMP detection, only from Lucigen

- · Amplify from any nucleic acid template: RNA, DNA and cDNA
- Get faster results than with Bst Exo Minus
- Run LAMP or RT-LAMP up to 72°C, get gene-specific results
- · Complete kit with controls, Magnesium Sulfate and Betaine for easy optimization

The OmniAmp® polymerase is the only enzyme capable of Loop-mediated Isothermal Amplification (LAMP) from both RNA and DNA samples. The enzyme has a temperature optimum of 72°C, allowing increased specificity and flexibility as compared with Bst

Exo Minus or two-step processes.

The native reverse transcriptase activity of this enzyme means no longer adding a separate reverse transcriptase for RNA targets.



Fig. 1. Quantitation of LAMP Amplification from DNA Target

Quantitative results of LAMP amplification of E. ictaluri DNA over several orders of magnitude of target concentration. Color key: 1:10 = Red, 1:100 = Blue, 1:1,000 = Brown, 1:10,000 = Green, 1:100,000 = Pink, 1:1,000,000 = Light Blue. 1:10,000,000 dilution (yellow) and NTC's (Black) showed no amplification. The cycler was programmed to read amplification in 30-second intervals (cycles).

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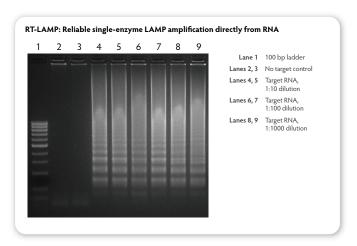


Fig 2. RNA LAMP reaction Agarose gel image of the included RNA LAMP Control Reaction. The common "ladder" banding pattern within a HMW smear is customary of LAMP reactions. No dedicated RT step or use of additional RT enzyme was used.

Products	Size	Cat. No.	Price
OmniAmp® RNA & DNA LAMP Kit	100 rxns	30065-1	\$204
	500 rxns	30065-2	\$816

## ORDER INFORMATION

OmniAmp\* RNA & DNA LAMP Kit is provided as a 50X enzyme with 10X DNA Polymerase Buffer C, 100 mM MgSO $_4$ , 5M Betaine, Nuclease-free water, a control RNA template and control LAMP reaction primers. Standard reaction is 25  $\mu$ L.

The enzyme is provided in a storage buffer of 10 mM Tris-HCl, pH 7.5, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 0.1% Triton X-100, and 50% Glycerol. 10X DNA Polymerase Buffer C is composed of 200 mM Tris-HCl pH 8.8, 100 mM (NH<sub>4</sub>) $_2$ SO $_4$ , 100 mM KCl, 20 mM MgSO $_4$ , and 1% Triton X-100.

Licensing information: Lucigen is a fully licensed provider of LAMP reagents for research use. Patents WO 00/28082, WO 01/34790, and WO 01/77317 regarding the LAMP method are owned by the Eiken Chemical Co. Ltd. OmniAmp® and Bst Polymerase, Exonuclease minus are sold by Lucigen under license for use in LAMP for research use only. The products may not be used for LAMP-based human or diagnostic purposes without obtaining a license from Eiken. US Patent 8093030 for OmniAmp DNA Polymerase is owned by Lucigen Corp.