

Materials List for:

# Reverse Transcription-Loop-mediated Isothermal Amplification (RT-LAMP) Assay for Zika Virus and Housekeeping Genes in Urine, Serum, and Mosquito Samples

Sarah N. Bartolone<sup>1</sup>, Maya O. Tree<sup>2</sup>, Michael J. Conway<sup>2</sup>, Michael B. Chancellor<sup>1,3</sup>, Laura E. Lamb<sup>1,3</sup>

<sup>1</sup>Department of Urology, Beaumont Health System

<sup>2</sup>Foundational Sciences, College of Medicine, Central Michigan University

<sup>3</sup>Oakland University William Beaumont School of Medicine

Correspondence to: Laura E. Lamb at [Laura.Lamb@beaumont.edu](mailto:Laura.Lamb@beaumont.edu)

URL: <https://www.jove.com/video/58436>

DOI: [doi:10.3791/58436](https://doi.org/10.3791/58436)

## Materials

Name	Company	Catalog Number	Comments
Bst 2.0 WarmStart DNA polymerase	New England Biolabs	M0537S	
Isothermal Amplification Buffer	New England Biolabs	B0537S	
WarmStart RTx Reverse Transcriptase	New England Biolabs	M0380S	
Antarctic Thermolabile UDG	New England Biolabs	M0372S	
MgSO <sub>4</sub>	New England Biolabs	B1003S	
100 mM dATP Solution	New England Biolabs	N0440S	Deoxynucleotide Set N0446S
100 mM dCTP Solution	New England Biolabs	N0441S	Deoxynucleotide Set N0446S
100 mM dTTP Solution	New England Biolabs	N0443S	Deoxynucleotide Set N0446S
100 mM dGTP Solution	New England Biolabs	N0442S	Deoxynucleotide Set N0446S
100 mM dUTP Solution	Thermo Fisher Scientific	R0133	
SYBR Green I Nucleic Acid Gel Stain	Invitrogen	S7563	
Nancy-520	Sigma Aldrich	01494	
Low DNA Mass Ladder	Invitrogen	10-068-013	
Zika Postive Control	Robert Koch Institute, Germany	N/A	
Agarose	Thermo Fisher Scientific	BP1600	
BlueJuice Gel Loading Buffer	Invitrogen	10816015	
Primers	Integrated DNA Technologies	Custom Oligo	
Nuclease-Free Water	Ambion	AM9938	
Urine Preservative	Norgen Biotek	18126	
ZIKV PCR Standard	Robert Koch Institute	N/A	Vero E6 cell supernatants
DENV2 New Guinea C Control	Connecticut Agricultural Experiment Station	N/A	