



Mosquito Surveillance Kit

Contact us:

Biomeme, Inc.

1015 Chestnut Street, Suite 1401

Philadelphia, PA 19107

(267) 930-7707

support@biomeme.com

Kit Contents

CONTENTS	QUANTITY
100 uL exact volume pipette	1 bag (100x)
400 uL exact volume pipette	2 bag (50x)
10 uL fixed volume white pipette	1x
20 uL pipette tips	2x box
DNase / RNase free molecular grade water	8x tubes
Biomeme Sample Homogenization Kit	2x box
Biomeme M1 Sample Prep Kit for RNA	1x box
LyoRNA Go-Strips	4x pouches (10x strips)
Pan- <i>Plasmodium</i> Go-Strips	1x pouch (10x strips)
Custom Primer / Probe panel (<i>Pan Dengue</i>)	2X pouches (2x tubes)
Custom Primer / Probe panel (<i>Pan Plasmodium</i>)	2X pouches (2x tubes)
Positive control DNA on Whatman punch (<i>Pan Dengue</i>)	6x tubes
Positive control DNA on Whatman punch (<i>Pan Plasmodium</i>)	6x tubes

1. Resuspend lyophilized primers and probe to a 2X concentration using the provided 100 uL exact volume pipette and DNase / RNase free molecular grade water.

- Fully compress the bulb of the 100 uL exact volume pipette
- Submerge the end into provided nuclease free water

- Release the bulb of the 100 uL exact volume pipette
- Check tube for bubbles and start over if bubbles are present
- Compress the bulb with the tip in the primer probe tube
- Mix contents thoroughly prior to use
- See this video for complete instructions (<https://vimeo.com/221627206>)

Note: *to prevent degradation resuspend primers and probe should be used immediately or stored at -20°C.*

2. Resuspend positive control using the provided 400 uL exact volume pipette and DNase / RNase free molecular grade water.

- Fully compress the bulb of the 400 uL exact volume pipette
- Submerge the end into provided DNase / RNase free molecular grade water
- Release the bulb of the 400 uL exact volume pipette
- Check tube for bubbles and start over if bubbles are present
- Compress the bulb with the tip in the positive control tube
- Mix contents thoroughly prior to use
- See this video for complete instructions (<https://vimeo.com/221627206>)

Note: *to prevent degradation resuspend positive control should be used immediately or stored at 4°C.*

3. Loading Sample, and resuspend 2X primers and probe mix into LyoDNA Go-Strip

Attention: contents of the test strip may shift during transport. When starting to work with this test, make sure the cake of the lyophilized reagent rests at the bottom of the wells. Tap the bottom of the closed test strip gently but firmly against a solid surface before opening the caps and adding nucleic acid.

- Attach a 20 uL pipette tip to the end of the 10 uL fixed volume white pipette
- Pipette 10 uL of your desired resuspend 2X primers and probe mix to the Biomeme LyoDNA Go-Strips
- Dispose of the 20 uL pipette tip
- Attach a new 20 uL pipette tip to the end of the 10 uL fixed volume white pipette
- Pipette 10 uL extracted nucleic acid sample or positive control to the Biomeme LyoDNA Go-Strips
- Once all wells are filled, hold the top of the test strip firmly between your fingers, and with a whipping motion of the wrist, flick the tubes a few times. This ensures bubbles are removed from the bottom of each tube.

4. Placing filled Go-Strip into the Biomeme three9 thermocycler

- Open the lid of the Biomeme three9 thermocycler. Place your test strip with the caps closed into the slot. Make sure the test strip is oriented correctly with the hinges of the lid facing the back of the device.
- Navigate to the Biomeme App to begin your testing protocol

Disclaimer

For Research Use Only. Not for use in human or veterinary diagnostics.

The performance characteristics of this product have not been established. This product is not intended for the diagnosis of disease in animals. The USDA has not evaluated the performance of this product. This product is not manufactured in a USDA-licensed facility.

Biomeme products may not be transferred to third parties, resold, modified for resale or used to manufacture commercial products or to provide a service to third parties without written approval of Biomeme, Inc.

Biomeme, Inc.

1015 Chestnut Street, Suite 1401

Philadelphia, PA, USA 19107

support@biomeme.com