

PRODUCT SHEET



# BIOPOO *E. COLI* GO-STRIPS

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**For Research Use Only. Not for diagnostic procedures.**

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# BIOPOO E. COLI TEST

Biomeme's shelf-stable and field ready *E. coli* Go-Strips streamline the detection of *E. coli* DNA. Biomeme Go-Strips contain a proprietary formulation of lyophilized primers, probes, and master mix as a dry reagent to be reconstituted with an aqueous nucleic acid sample. The Go-Strips are 0.1 mL low-profile, thin-walled, optically clear 3-well strips. They are sealed by void-filling caps inserted directly into the tubes before placing the Go-Strips in the Biomeme Franklin mobile qPCR thermocycler.

## SAFETY WARNING:

When working with our products, always wear appropriate personal protective equipment (PPE) (e.g. lab coat, disposable gloves with adequate chemical resistance, mouth/face protection, goggles, etc.) For more information, please review the product's safety data sheet(s) (SDS).

# CONTENTS

Item	Quantity
3-well Test Strips	32 (96 reactions)
3-well Void Filling Caps	32

# TECHNICAL SPECIFICATIONS

Specifications	Value
Tube Type	Low-Profile, 0.1 mL PCR Tubes, Strips of 3
Reaction Volume	20 $\mu$ L
Probes	FAM, ATTO647N, TexasRedX

# TEST PANEL SPECIFICATIONS

Biomeme's *E. coli* (*Escherichia coli*) Go-Strip is a triplex real-time PCR assay for detection of *E. coli* DNA. Target configuration is:

	Well 1	Well 2	Well 3
FAM	<i>E. coli</i>	<i>E. coli</i>	<i>E. coli</i>
ATTO647N	Internal Positive Control	Internal Positive Control	Internal Positive Control
TexasRedX	Human Fecal Indicator	Human Fecal Indicator	Human Fecal Indicator

# THERMOCYCLER PROTOCOL

	Temperature (°C)	Duration
Reverse Transcription	N/A	N/A
Initial Denature	95	60 secs
Cycling Denature	95	1 sec
Annealing	60	20 secs
Extension	N/A	N/A
<b>Number of Cycles: 40</b>		<b>Total Reaction Volume: 20 µL</b>

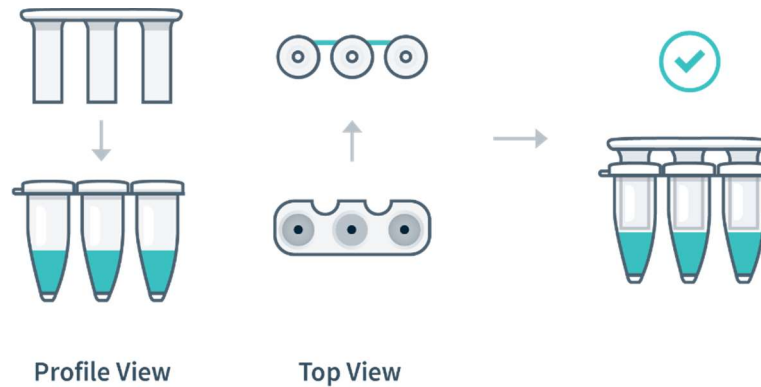
## INTERPRETATION GUIDE

<i>E. coli</i>	IPC	Result
+	+	Positive detection; target is present
+	-	Positive detection; target is present
-	+	Negative sample; target is not present
-	-	Invalid result. Retest the extracted sample

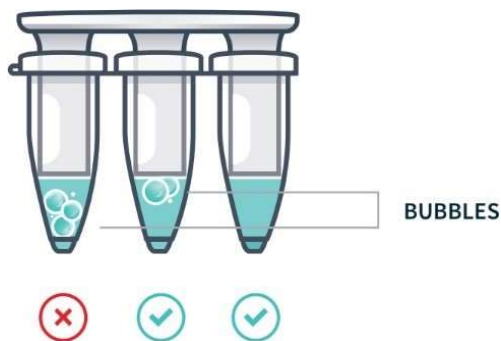
# LOADING SAMPLE INTO GO-STRIP

**Note:** Contents of the test strip may shift during transport. When starting to work with any test, make sure the cake of the lyophilized reagent rests at the bottom of the wells. Tap the bottom of the sealed test strip gently but firmly against a solid surface before removing the foil strip and adding nucleic acid.

Transfer 20  $\mu$ L purified sample into each well of the Go-Strip. Once all wells are filled, place the void filling cap into the strip. Align the Go-Strip and void filling cap so that the strip connections are visible through the cap cutouts.



Hold the strip firmly between your fingers and use one finger to secure the void filling cap inside of the strip. Then, with a gentle whipping motion of the wrist, slowly flick the tubes a few times to ensure bubbles are removed from the bottom of each tube.



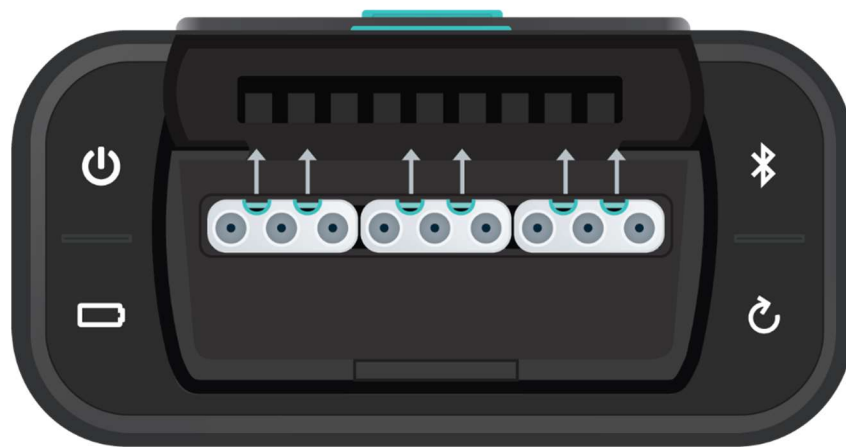
**Note:** Bubbles may remain at the top of a tube. This is acceptable. Bubbles at the bottom of the tube, however, are not acceptable.

# PLACING INTO FRANKLIN™ THERMOCYCLER

Open the lid of your thermocycler by pressing the latch on top of the unit.

Place your Go-Strip, with the void filling cap inserted, into a 3-well slot. Do not worry if the void filling cap feels slightly loose. When the lid of the thermocycler is closed, it will secure the caps into place, sealing the PCR reaction.

It's important to make sure your Go-Strip is oriented correctly when placing it into your thermocycler. Make sure the strip connections that are visible through the void filling cap cutouts are facing the back of your thermocycler as shown in the illustration below, then close the lid.



Navigate to the Biomeme Go mobile application on your smartphone to begin your testing protocol. For further instructional information, please contact [support@biomeme.com](mailto:support@biomeme.com).

**Note:** After your run has completed, be careful when removing your Go-Strips and void filling caps to avoid liquid splatter.

**Note:** Please transport your Franklin thermocycler in its carrying case. Additionally, moving your thermocycler while thermocycling could result in errors. We highly recommend not moving or opening the device while thermocycling to avoid losing your PCR run.

## STORAGE

All components of the Go-Strip should be stored in a dry place, at room temperature (15-30°C).

Once the large Go-Strip pouch has been opened, ensure that it is closed completely between use. Individual test strips should be used within a reasonable period of time after removal from individual foil pouch. Once opened, the dry reagent resists high humidity for up to one hour.

# DISCLAIMER

**For Research Use Only.** Not for use in human or veterinary diagnostics. The performance characteristics of this product have not been established.

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.

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