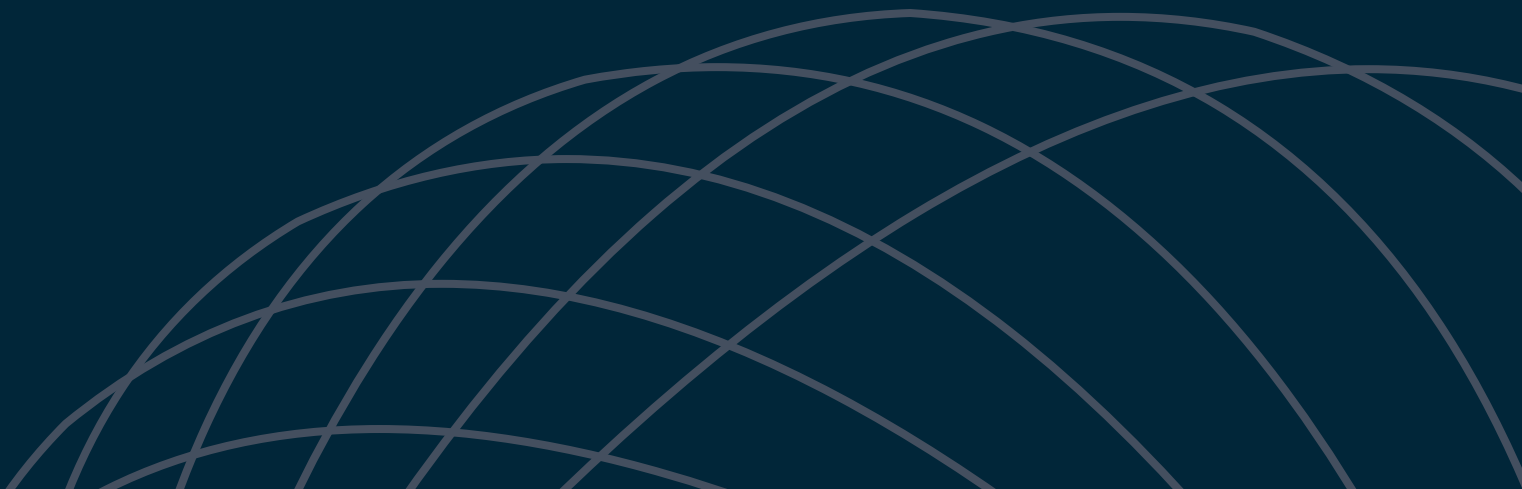


GUIDEBOOK



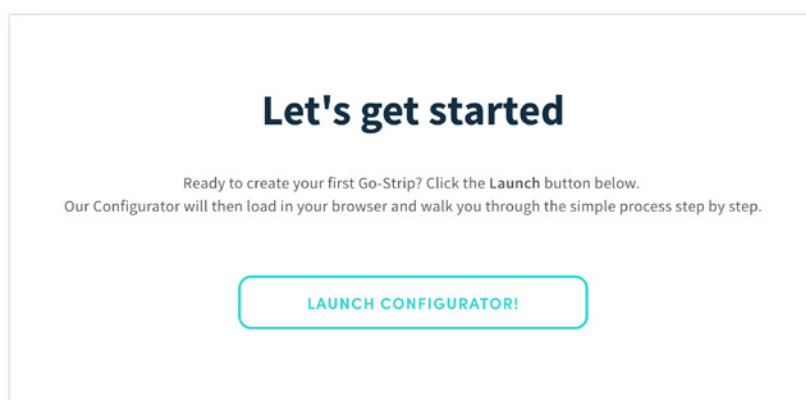
# Biomeme Custom Go-Strip™ Configurator

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# Using the Configurator

Create your own custom assays using Biomeme's high-performance LyoGreen™, LyoDNA™, and LyoRNA™ shelf-stable master mixes in our field-friendly 3-well Go-Strip™ format designed for use in Biomeme's mobile PCR thermocyclers. We synthesize your custom primers and probes, pre-aliquote them into our master mixes, and lyophilize them in Go-Strips™.



To begin the process of designing your custom Go-Strips press the “LAUNCH CONFIGURATOR!” button found in the [Biomeme Shop](#). Our Configurator will then load in your browser and walk you through the simple process question by question.

## Fluorophores:

Biomeme's custom Go-Strips are optimized for our thermocyclers, the two3™ and three9™. The two3 has two color channels and detects the fluorophores FAM and ATTO647N. The three9 has three color channels and detects the fluorophores FAM, ATTO647N, and TexasRed-X.

## Volumes:

Biomeme's custom Go-Strips are designed to work best with final reaction volumes of 20 - 50uL.

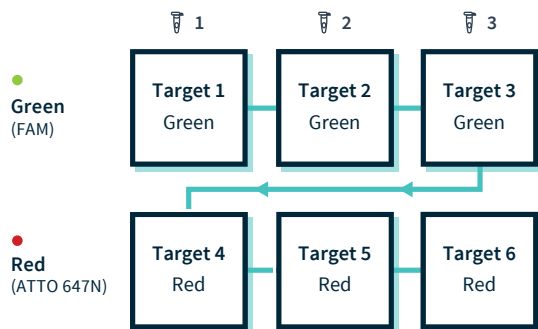
## Order of entry:

After entering the requested information for your first target (*sequences, concentrations, color channels, wells, etc.*), you will be prompted with the question:

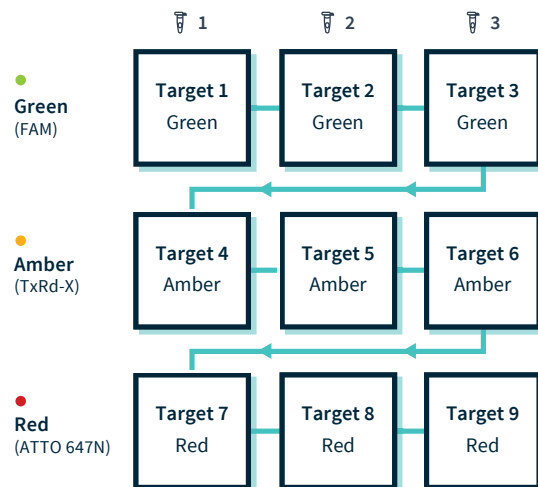
“Do you have additional target(s)?”

If you answer “yes”, then you will move onto entering information for your remaining targets. If you answer “no”, you will jump to our disclaimers and terms & conditions before completing your submission. As outlined below, our two3 thermocycler allows you to test for up to 6 targets per sample and our three9 thermocycler allows for up to 9.

### two3:



### three9:



Other considerations as they relate to color channel and well section include:

- Regardless of the Biomeme device you are using, you may only select the Green (*FAM*) channel if your assay is intercalating dye based.
- If you are using our two3 thermocycler, you may select between Green (*FAM*) and Red (*ATTO647N*). If you are using our three9 thermocycler, you may select any channel.
- If this is a duplex assay, we highly recommend using Green (*FAM*) and Red (*ATTO647N*) channels as they are preferential in terms of co-excitation.
- If your assay consists of multiple targets, make sure your well selections do not interfere with one another.

Biomeme custom Go-Strips work best with fluorophores and columns indicated. If your assay requires different parameters, we will gladly work with you to create the best possible custom Go-Strips for your application. To begin this process, please visit <https://biomeme.com/contact-us/>.

## Configuring your assay

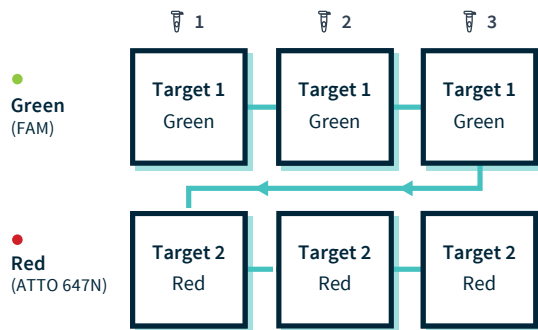
Biomeme's custom Go-Strips are highly adaptable to meet your individual needs. The configuration you use will depend on which Biomeme device you are working with and the specific goals of your workflow. Below are the two most commonly used approaches when working with either the two3 or the three9 thermocycler.

# 1. Optimize for throughput:

Maximize the number of samples per run of your device, allowing the highest number of samples to be analyzed with each run. In this configuration, each sample will be analyzed in a single reaction well of the 3-well Go-Strip. Use the appropriate approach outlined below for your respective device:

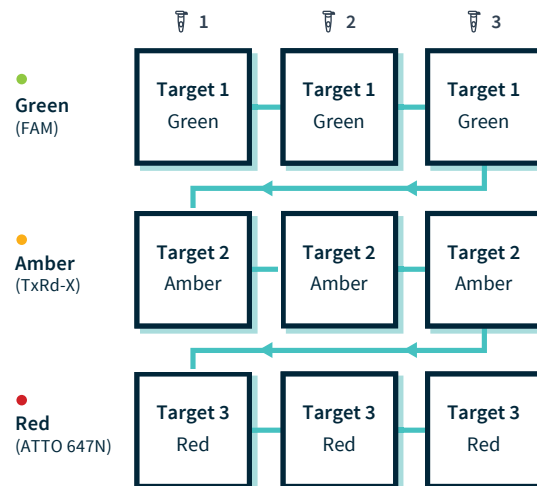
## two3:

3 samples per run (*one 3-well Go-Strip*), testing for 1-2 targets per sample\*



## three9:

9 samples per run (*three 3-well Go-Strips*), testing for 1-3 targets per sample\*



## Note:

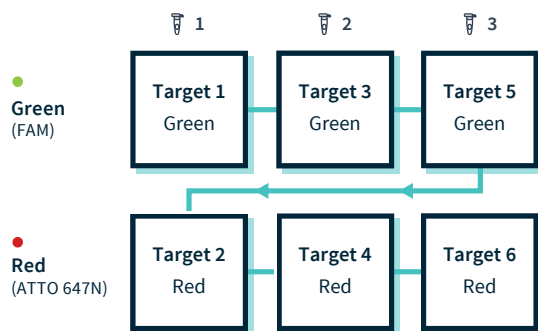
*Biomeme recommends having at least one target that acts as a positive control.*

## 2. Maximize DNA/RNA targets detected per sample:

Prioritize the number of targets when you need in-depth analysis of fewer samples. One sample could be added to multiple reaction wells of the 3-well Go-Strip(s).

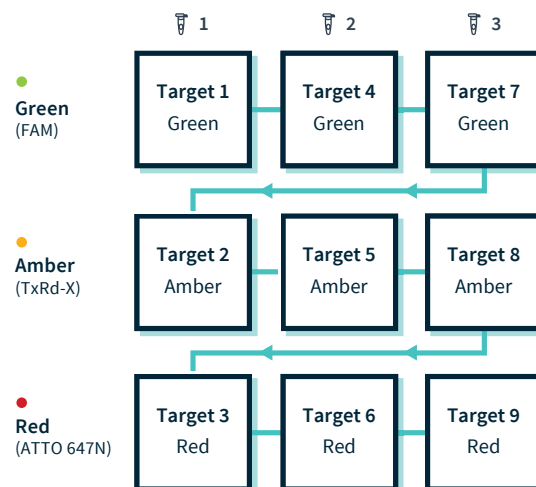
### two3:

1 sample per run, testing for up to 6 targets per sample\*



### three9:

3 samples per run, testing for up to 9 targets per sample\*,\*\*



### Note:

\*Biomeme recommends having at least one target that acts as a positive control.

\*\*Some three9 users create panels combining three different Go-Strips (A, B, and C) with each Go-Strip testing for up to 9 targets. This enables a user to test for up to 27 distinct targets per sample and run (3 Go-Strips x 9 targets each).