

## PCRstable® Case Study:

### Stabilization of Multiplexed Panel for Next-Generation Sequencing

#### PROJECT BACKGROUND

The customer, a major US biotechnology company, developed a highly multiplexed panel for next-generation sequencing but encountered a high failure rate when the assay was transferred to manufacturing.

#### CHALLENGES

The customer required stabilization of dry reagents uniformly adhering to 96-well plates to eliminate assay failures and inter-assay variability. Due to large scale manufacturing and the high complexity of the assay, any variability in coating reagents in the wells added inconsistency, resulting in high failure rates.

#### WHY BIOMATRICA

Biomatrica's expertise in biostabilization enabled rapid and cost-effective development of a custom stabilizer that improved assay reproducibility. This eliminated assay failures following transfer from small scale development to large scale manufacturing.

#### RESULTS

The PCRstable® technology allowed the client to improve overall assay performance without alteration of the manufacturing workflow. PCRstable® markedly reduced the assay's failure rate upon transfer from development to manufacturing. As a result, Biomatrica enabled the client to develop a robust, simplified, customer workflow.