When Time is Crucial...

Record-breaking Speed - 1 Week for qPCR Assay Development, Manufacturing and Initial Testing

Project Challenge
In the current project the mechanisms of coronary occlusion in acute coronary syndrome were studied and Microsynth was asked to specifically quantify 8 different bacterial species by qPCR. The challenge of the project was neither given by the number of samples nor the number of bacterial species to screen but rather by the ambitious time line given by the customer (less than 4 business days from inquiry to delivery of analysis results).

Project Realization
Following the initial contact with the customer on Monday afternoon, the technical feasibility and timelines for critical steps in the project was evaluated by our qPCR application and DNA synthesis specialist (i.e. sequential synthesis of primers/probes and artificial templates to rule out any contaminations). Actions were taken to speed up DNA synthesis beyond the standard process to cope with the projects timeline. This helped to be ready for the functional testing of the assays on Wednesday afternoon and run the qPCR measurements on Thursday including non-template controls as well as positive controls. Analysis and reporting was done on Friday morning – just in time to be included in the manuscript to be submitted.

Customer Feedback
We were happy to find a competent and trustworthy company that was able to keep pace with our very ambitious time line to get the analysis done. The interaction with Microsynth’s qPCR application specialists was highly professional, which is essential for a positive outcome of this cooperation. The analysis results reported by Microsynth were included in our paper and we are pleased that our work was published in Circulation Research in the meantime.

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