

High-throughput digital PCR system, 10/17

October 2017—Formulatrix announced the release of its next-generation Constellation Digital PCR System.

The digital PCR system mimics contemporary qPCR with a plate-based and high-throughput workflow capable of processing up to four plates per run. For higher throughput applications such as gene expression analysis, plates that accommodate 96 samples will provide partitioning into 8,000 microfluidic chambers per sample. For more sensitive applications, such as rare mutation detection, plates that divide 24 samples into 36,000 partitions per sample are available.

“With up to five channel filters, the Constellation is the first ever digital PCR system to offer five-color multiplexing, making it a high-throughput platform capable of displacing qPCR as the method of choice for high-throughput quantification of nucleic acid targets,” Jeremy Stevenson, founder and CEO of Formulatrix, said in a statement.

The addition of sample, master mix, and primers can be performed just like in qPCR workflows, enabling researchers to more easily transfer their current multiplex qPCR assays to digital PCR.

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