

The Array Tape Platform Delivers the Next Evolution of PCR Instrumentation

Alexandria, MN, February 8th, 2015- Douglas Scientific® LLC announces the launch of IntelliQube®, the next generation of high throughput qPCR in Array Tape®.

The IntelliQube is the first fully automated, high-throughput instrument to feature seamless integration of liquid handling, thermal cycling, detection, and data analysis. The IntelliQube supports quantitative real-time PCR, end-point PCR, and isothermal chemistries; allowing labs to realize the benefits of inline automation that are enabled by the innovative Array Tape® consumable.

Array Tape is a thin polymer strip with serially embossed wells that provides a flexible microplate replacement. It has made its mark globally in SNP genotyping applications by significantly increasing throughput while reducing the cost per data point in laboratories ranging from agrigenomics to clinical diagnostics. The introduction of IntelliQube extends this value to a broader scope of applications and laboratories. With the new 768-well Array Tape format, labs can expect twice the PCR throughput compared to traditional 384-well qPCR instruments while substantially reducing chemistry costs with 1.6µL reaction volumes!

The IntelliQube is compatible with an extensive list of chemistries and fluorogenic probes, and offers five distinct detection channels to enable multiplex reactions. Integrated liquid handling maximizes process flexibility and minimizes waste compared to rigidly defined chips, microarrays or microfluidics. A variety of qPCR and end-point PCR applications are compatible with the system, including but not limited to gene expression analysis, genotyping and copy number variants (CNVs), microbial detection and quantification, miRNA analysis, zygosity and GMO detection. The IntelliQube delivers accurate and sensitive PCR results with the flexibility, efficiency and integration that labs need. The IntelliQube is positioned to become an integral part of cutting edge research within the fields of agrigenomics, pharmaceuticals and diagnostics.

“The Array Tape paradigm has revolutionized the ultra-high throughput genotyping space since its introduction with the Nexar system in 2009. With the launch of IntelliQube, we are excited to extend the Array Tape advantage to a wider laboratory audience that provides unprecedented flexibility, throughput, process efficiency while lowering operating costs,” says Darren Cook, Executive Vice President Business Development and Strategy at Douglas Scientific. “The integrated qPCR workflow within the IntelliQube provides scientists control, consistency and hands off operation so they can focus on results rather than microplate management.”

About Douglas Scientific®

Douglas Scientific LLC, is a rapidly growing laboratory automation company located in Alexandria, MN, with a team of over 100 professionals bringing together expertise in engineering, biosciences, automation, motion control, and other fields. At the core of Douglas Scientific is a dedication to making the world a better place by delivering innovative laboratory automation solutions.

Douglas Scientific designs and manufactures a full line of laboratory instrumentation—Nexar® and IntelliQube® systems—to enable PCR reactions using Array Tape.

As a leading automation company delivering on its mission, Douglas Scientific has enabled laboratories around the world to leverage the patented Array Tape consumable. This innovative microplate replacement consists of a continuous polymer strip embossed with microliter wells that can be used in a variety of laboratory applications. As a result, scientists worldwide have processed billions of samples in the areas of plant genomics, animal health, clinical diagnostics and pharmaceuticals at unprecedented speed and fractional costs. By partnering with the most creative and dedicated scientists around the world, the company continues to deliver advancements to address several imminent global issues and challenges.

www.DouglasScientific.com

Notes for editors

Darren Cook is available for interview

Product images are available on request

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