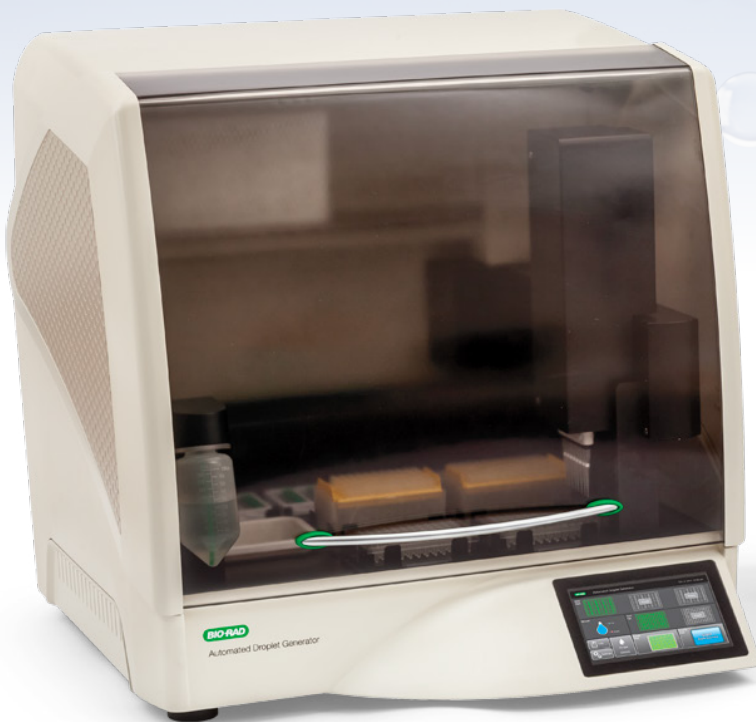


DROPLET DIGITAL PCR

QX200 & QX600



Droplet Digital™ PCR (ddPCR™) is a breakthrough technology that provides **ultrasensitive nucleic acid detection** and **absolute quantification**. It is highly effective for resolving low abundance targets, such as allelic or structural variants, that are below the level of detection of other platforms.

With advanced multiplexing offerings, ddPCR technology maximizes the number of targets analyzed per well without sacrificing performance.

The benefits of ddPCR:

- **Absolute Quantification** - provides an absolute count of target DNA copies per input sample without the need for standard curves
- **Highest Precision and Sensitivity** - enriched template concentration in target-positive droplets allows higher precision and sensitivity than real-time PCR
- **Removal of PCR Efficiency Bias** - error rates are reduced by removing the reliance on amplification efficiency of qPCR

Contact your **Lasec® Sales Representative** today.
Ts & Cs apply

+27 21 531 7504 sales@lasec.com www.lasec.com

Applications of ddPCR:

Mutation detection in Liquid Biopsy / ctDNA



Mutation detection in Tumor Samples



Methylation Detection



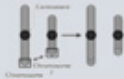
Genome Edit Detection



Microsatellite Instability (MSI)



DNA Fusions



Gene Expression Analysis (mRNA, miRNA, lncRNA, etc.)



Copy Number Variation (CNV)



Viral Load & Viral Titer



Loss of Heterozygosity (LOH)



Residual DNA Detection in Biologics



Wastewater Detection

Configurations:

• QX200 ddPCR System

Two fluorescent channels, allows multiplexing up to four targets

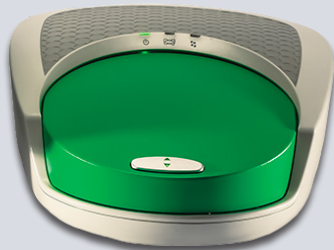
• QX600 ddPCR System

Six fluorescent channels, allows multiplexing up to twelve targets

[Click here for more information](#)



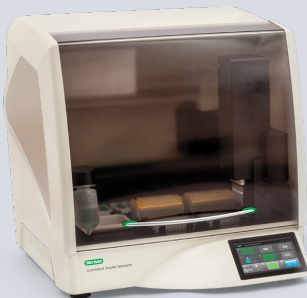
[Click here to view Manual Droplet Generator](#)



[Click here to view Droplet Reader](#)



[Click here to view Automated Droplet Generator](#)



LASEC® BIOTECHNOLOGY

BIO-RAD
PrimePCR

PrimePCR, developed by Bio-Rad Laboratories, offers a line of high-quality, pre-validated qPCR (quantitative Polymerase Chain Reaction) assays and reagents. These products are meticulously designed to enhance gene expression analysis, genotyping, and a variety of other PCR-based applications.

Assay Performance Standards				
SENSITIVITY	SPECIFICITY	APPLICATION EFFICIENCY	LINEAR DYNAMIC RANGE	R2
Accurate detection of 10 copies	99.99%	95 - 110%	Minimum 10 cycles of amplification; maximum of 10 cycles of amplification	0.99

Assay Design and Validation: These assays are meticulously designed and validated to ensure high specificity, efficiency, and accuracy. They are suitable for a wide range of genes and can be combined with other qPCR products.

Ready-to-Use Assays: The assays are ready to use, reducing the time and effort required for assay development.

Wide Range of Targets: The assays are available for a wide range of genes, including human, mouse, rat, and zebrafish.

Customization Options: Custom assays are available for specific needs. Bio-Rad offers a wide range of qPCR products to meet your needs.

Quality Control: Each assay is rigorously tested to ensure high quality and consistent performance across all applications.

Integrated Software: PrimePCR products are designed to work seamlessly with Bio-Rad's real-time PCR software for data analysis.

PDF

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