

MedixMDx qRT-Probe Mix (MX2103, MX2104)

Introduction

MedixMDx qRT-Probe Mix is a universal one-step probe mix for robust, sensitive, and fast RT-qPCR. The mix uses state-of-the-art technologies with an antibody-regulated hot-start Taq polymerase and reverse transcriptase for efficient cDNA synthesis and real-time PCR amplification in a single reaction. The optimized buffer chemistry and PCR enhancers, RNase inhibitor, and stabilizers enable rapid and sensitive RT-qPCR. MedixMDx qRT-Probe Mix is ideal for rapid detection and quantification of a variety of RNA templates, such as mRNA, viral RNA, and total RNA.

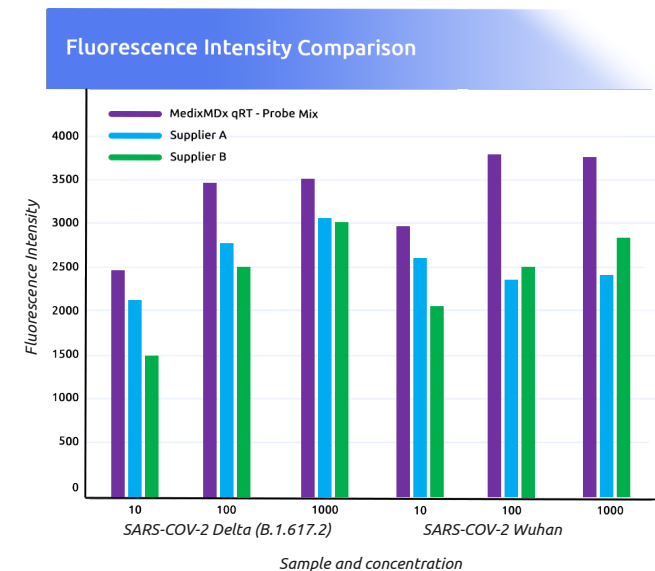
Methods

MedixMDx qRT-Probe Mix was compared to two other suppliers. Two dilution series of RNA from SARS-CoV-2 Wuhan strain and Delta strain B.1.617.2 were used as templates. Three increasing concentrations (10-100-1000 copies) were tested in triplicate. The TaqMan oligos targeted a 83 bp fragment of the ORF1 gene. The samples were run as per Table 1 on a BioRad CFX Opus 96 instrument.

Table 1. Thermal cycling conditions.

Step	Temperature	Time	Cycles
1.	45°C	10 min	1 cycle
2.	95°C	2 min	1 cycle
3.	95°C	5 sec	40 cycles
4.	60°C	30 sec	

Figure 1. MedixMDx qRT-Probe mix comparison to two alternative suppliers.



Results

Data comparison using SARS-CoV-2 Wuhan strain and SARS-CoV-2 Delta strain (B.1.617.2) as templates is shown in Figures 2 and 3, respectively. Fluorescence intensity for MedixMDx qRT-Probe Mix and the two alternative suppliers is shown in Figure 1.

Conclusions

- MedixMDx qRT-Probe Mix displayed similar or better performance compared to the alternative suppliers.
- MedixMDx qRT-Probe Mix amplified well both **SARS-CoV-2 Wuhan** and **SARS-CoV-2 Delta (B.1.617.2)** samples.

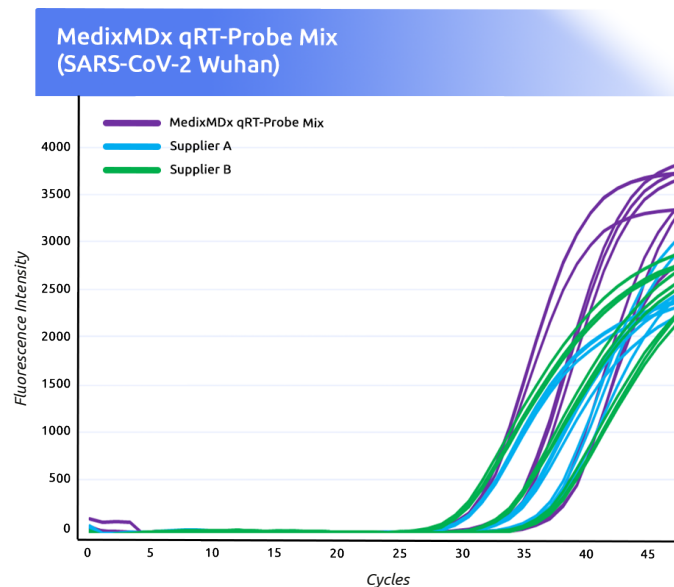


Figure 2. MedixMDx qRT-Probe Mix comparison against two alternative suppliers **with SARS-CoV-2 Wuhan** as a template.

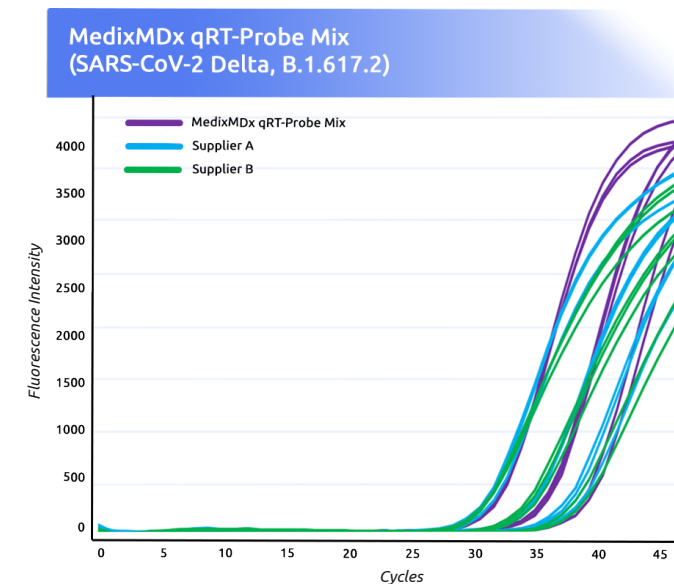


Figure 3. MedixMDx qRT-Probe Mix comparison against two alternative suppliers **with SARS-CoV-2 Delta (B.1.617.2)** as a template.

Contact us

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