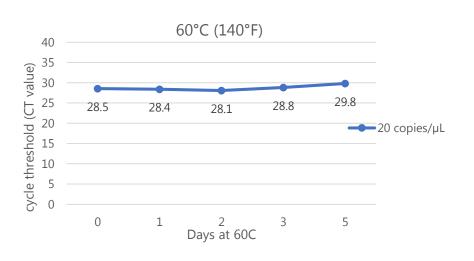
### **THERMAL STABILITY OF COVID-19 RNA IN PRIMESTORE MTM® (EXP. 3)**

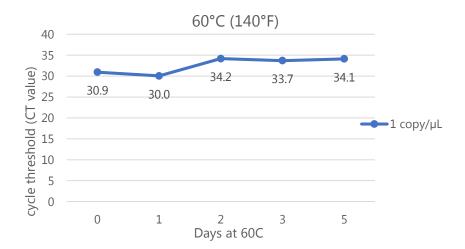
#### Overview

- Experimental Design: Extended High Heat Study. Study was performed at 60°C (140°F) at 20 and 1 copies/µL. 20 replicate extractions were performed at 0 (benchmark), 48 hrs., 72 hrs., and 5 days. Nucleic acids were extracted (20 replicates) using PrimXtract according to manufacturer's instructions and qPCR analysis was performed using an ABI-7500 with CDC's COVID-19 assay.
- Summary: 20 of 20 replicate extractions were detected at all timepoints for both 20 and 1 copies/µL concentrations. At 60°C, there was an average 1.4 and 3.2 cycle threshold reduction noted at 20 and 1 copies/µL, respectively.
- Conclusion: At elevated temperature, SARS-CoV-2 RNA is preserved in PrimeStore MTM® with only marginal loss in cycle threshold value according to qPCR.

Copies/µL	0 (benchmark)	Day 5	qPCR CT difference
1	30.9	34.1	-3.2
20	28.5	29.8	-1.3



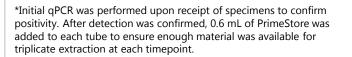


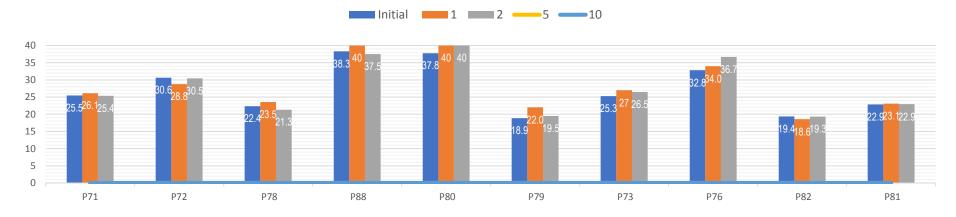


## FREEZE (-20°C) / THAW (+40°C) STABILITY OF CLINICAL NP COVID-19 SAMPLES IN PRIMESTORE MTM<sup>®</sup> (EXP. 4)

#### Overview

- Experimental Design: 10 Clinical samples (NP swabs in PrimeStore MTM) that tested positive for SARS-CoV-2 previously by Amazon were used in this analysis. An initial qPCR was performed upon receipt of specimens to confirm positivity of COVID-19. After detection was confirmed, 0.6 mL of PrimeStore was added to each tube to ensure sufficient material for triplicate extraction at each timepoint. Samples were frozen (-20°C) and thawed at high heat (+40°C) a total of 1, 2, 5, and 10 times and assessed by qPCR.
- Summary: TBD
- Conclusion: TBD





# amazon



#### Study in progress