

Why you should not be placing NP swabs in sterile saline for COVID-19 testing

Experiment Details

A matched NP swab from a confirmed SARS-CoV-2 patient was placed into a sterile vials containing: 1) 1.5 mL saline, and 2) 1.5 mL PrimeStore MTM.

The two matched pair samples were tested at timepoint 0 and placed at elevated temperature (38°C; 100.4°F). They were subsequently re-tested at 24 and 48 hours using a QuantaBio qPCR instrument with CDC's COVID19 assay.

The results are startling.

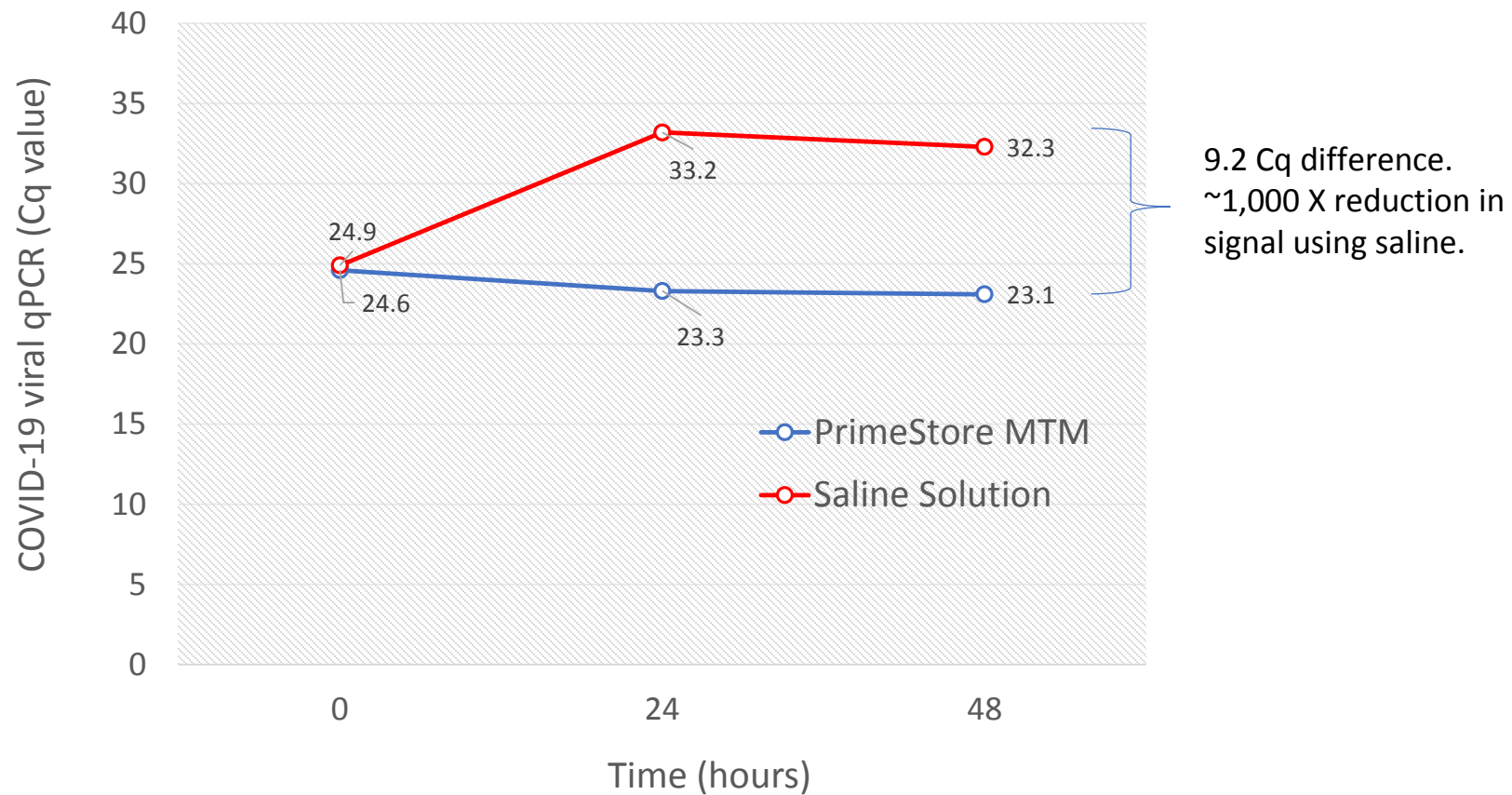
Luke T. Daum, August 2020



Not all COVID-19 collection mediums are the same!

NP swab in PrimeStore or Saline @ 38°C; 100.4°F

Results



Conclusions

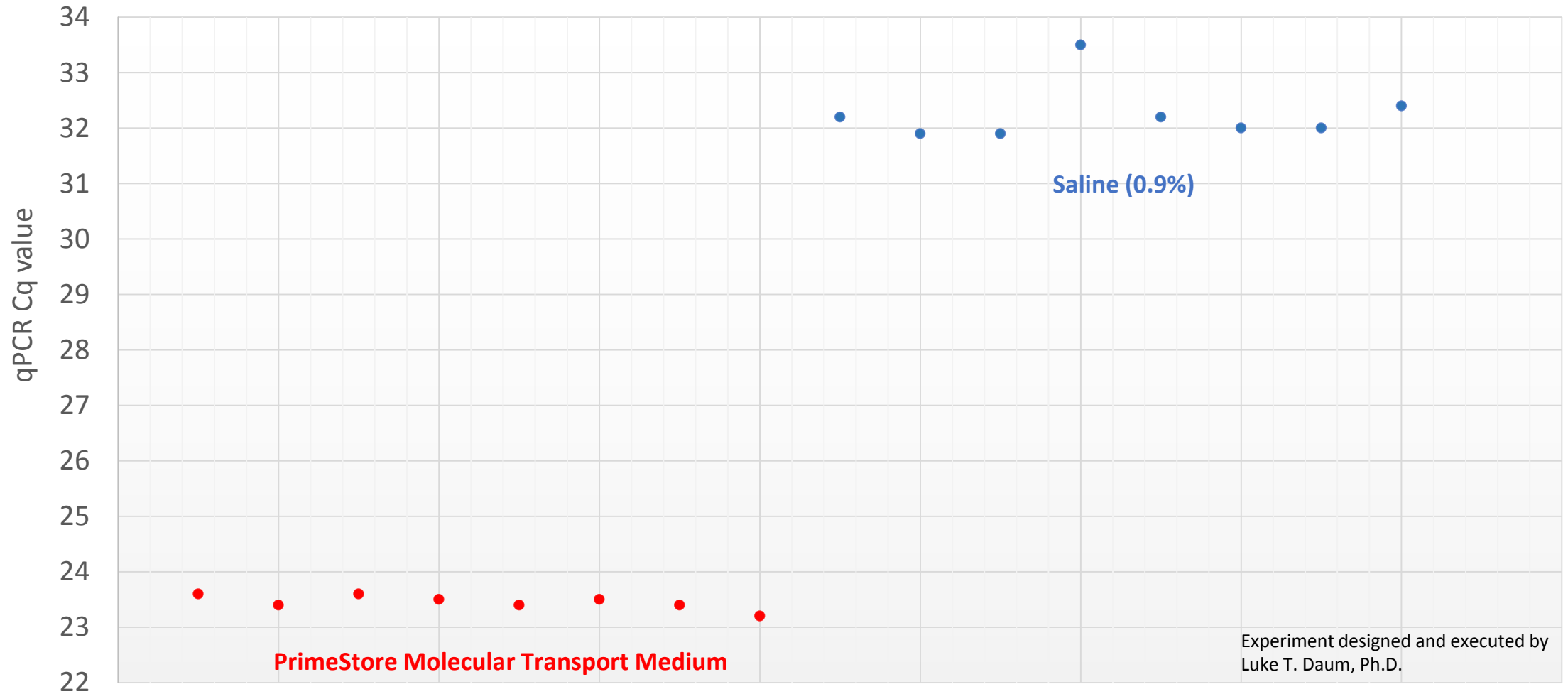
Thinking of using Saline for collection of COVID-19 NP swabs?

At elevated temperature, SARS-CoV-2 RNA is preserved 1000-fold more in PrimeStore vs. saline.

PrimeStore stabilizes/preserved RNA from COVID19 at elevated temperature.

Experiment designed and executed by Luke T. Daum, Ph.D.

Replicate Extractions from a Clinical NP Swab in PrimeStore MTM and Saline After 48 Hours at Elevated Temperature (38°C/100.4°F)





Questions?

Contact: Dr. Luke T. Daum

Chief Scientific Officer and Executive Vice President

Phone: Cell (210) 392-6244; Lab (210) 826-0910

Email: Longhorn-VandD@sbcgobal.net

Longhorn Vaccines and Diagnostics