



Primestore® MTM  
by Photon Biosciences in  
partnership with Longhorn Vaccines  
& Diagnostics  
for sample collection and transport  
for Virus (COVID-19) Testing

*100% Made in America*

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<https://photonbiosciences.com/>

# PrimeStore<sup>®</sup> MTM

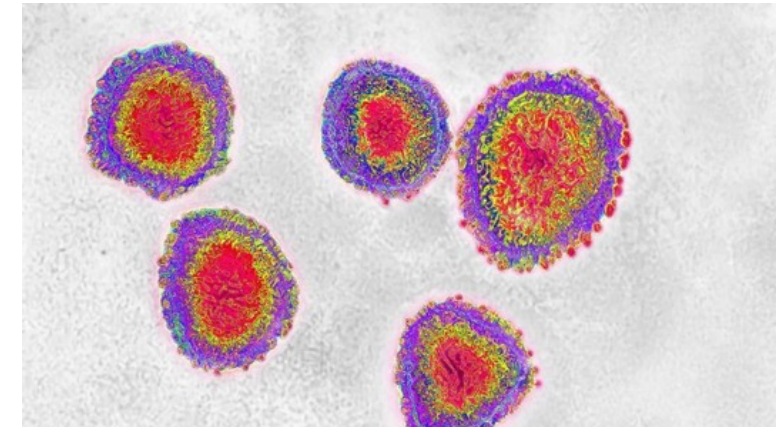
It ALL starts with the Sample!

Now more Important than ever

FDA Cleared  
DNA



FDA Cleared  
RNA



COVID-2019

# Why Use PrimeStore<sup>®</sup> MTM?

No containment equipment or facilities = ***Lower Costs***

- ***No bottlenecks, No Delays, Straight to Testing!!***
- Safe samples during transport and handling in the workplace (including clinics/offices with POC systems)

No cold chain shipping necessary = ***Lower Costs***

Sample quality = ***Accurate Results***

- eliminates poor/bad/wrong results (garbage in, garbage out)
- reduces lost/wasted time and money
- quickly provide the correct patient treatment

Same tube for collection, inactivation, shipping and storage (including Bio-Banking) = ***Lower Costs***

	Primestore® MTM	Other Transport Media VTM/UTM/Saline
Virus (COVID-19) if present in the sample	Virus is <b>INACTIVATED (NOT INFECTIOUS)</b> and nucleic acid (RNA/DNA) is preserved	Virus is <b>ACTIVE</b> (considered <b>INFECTIOUS</b> )
Shipping conditions	Stable at Room Temperature for <b>30 days (NO COLD CHAIN)</b> , can use NORMAL FedEx and UPS shipping	Require <b>COLD CHAIN</b>
Sample handling at testing location	Can be done on <b>BENCHTOP (BSL-1)</b>	Require <b>BIOLOGICAL SAFETY CABINETS (BSL-2, BSL-3)</b> – <b>MAJOR bottleneck</b> to increase testing
Time for processing multiple samples	<b>Short</b> (high throughput) due to significant reduction of bottleneck (biosafety cabinets)	<b>Long</b> (low throughput) due to needing to handles samples in biosafety cabinets
Sample stability for retesting	Can be <b>used</b> and <b>REUSED</b>	Depends on the storage conditions and handling of samples
FDA Approval	<b>ONLY</b> media on <b>US FDA's</b> preferred list that inactivates SARS-CoV-2 during the collection and transit stage	N/A

# Sample types

- ✓ Nasal washes
- ✓ Sputum
- ✓ Swabs (oral, throat, nasal, nasopharyngeal, buccal)
- ✓ Saliva
- ✓ Blood/Plasma/Serum
- ✓ Urine, other body fluids
- ✓ Fecal/Stool
- ✓ Tissue (homogenized)
- ✓ Food Samples
- ✓ Environmental (water, waste water, surfaces, soil)

# PrimeStore<sup>®</sup> MTM – Molecular Transport Media

- PrimeStore<sup>™</sup> MTM inactivates the virus while preserving the virus RNA for qPCR, NGS or gene sequencing.
  - Considered by **US FDA as a primary sample collection device for SARS-CoV-2**. Only media on the FDA's preferred list that inactivates SARS-CoV-2 during the collection and transit stage.
  - PrimeStore<sup>™</sup> MTM is the **only FDA Cleared Molecular Transport Medium** for respiratory samples suspected of harboring influenza or TB (FDA cleared in 2018).
  - PrimeStore<sup>™</sup> MTM collected samples enable **safe handling** for both point of care and in the laboratory- since the entire sample is inactivated/killed including SARS-CoV-2.
  - Since the pathogens collected are eliminated, the samples **can be shipped using routine boxing/shipping methods**.
  - Samples in PrimeStore<sup>™</sup> can be shipped with **NO COLD CHAIN**, no wet or dry ice (**samples stable at room temperature up to 30 days**).
  - Because the virus is inactivated upon addition to the tubes, testing locations **can handle the samples in benchtop and BSL1 conditions** allowing them to expand their testing capacity.
  - The collected sample in PrimeStore<sup>™</sup> can be used/re-used several times for additional testing.

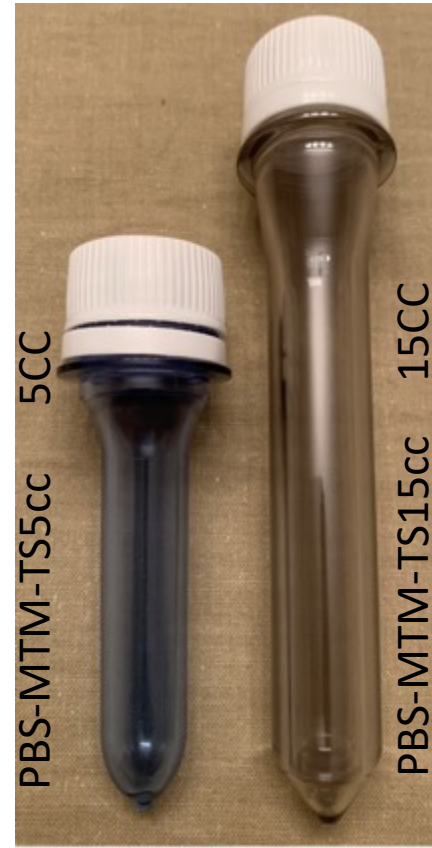
# Primestore<sup>®</sup> MTM – Molecular Transport Media

- PrimeStore MTM provides **safer and more reliable testing** than UTM/VTM, saline, or research use only devices. Samples in VTM/Saline are still considered infectious and must be transferred in a biological safety cabinet, significantly slowing down the work flow.
- PrimeStore<sup>™</sup> MTM is **compatible with all spin columns and molecular bead extraction kits** (bench top and high throughput liquid handling systems) and works with the Roche MAGNAPURE, Thermo Scientific MagMax, or almost all DNA/RNA liquid handling extraction systems.
- Primestore<sup>®</sup> MTM **cryotubes can be frozen at ultra-low temperatures for biobanking or simply stored in the refrigerator.**
- Laboratories have independently validated PrimeStore MTM a wide range of high throughput platforms from Roche, Thermo Fisher, Abbott, Siemens, Luminex, BioRad, PSS, Promega, and BioMerieux, as well as the Cepheid GeneXpert point of care platform.
- **New SARS-CoV-2 Study:** Pooling samples collected in PrimeStore MTM is ideal for testing large populations such as employees and students with a significant reduction in infrastructure and cost. Pooling samples requires small amounts of each sample to be combined into a new tube, PrimeStore MTM allows the process to occur on the **benchtop**.



# PrimeStore® MTM Tube Sizes

## Photon Biosciences Catalog Numbers





# Pricing & Other Product Related Questions

**Contact Us:**

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(509) 418 2842

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10 clinical NP swabs in PrimeStore MTM<sup>®</sup> were tested individually. One sample was positive (CT = 29.8) and 9 were determined negative for SARS-CoV-2.

Clinical samples in PrimeStore MTM<sup>®</sup> were combined “pooled” and tested using: 1) CDC’s COVID-19 qPCR and 2) Roche Cobas Liat.

SARS-CoV-2 was readily detected by both platforms!



10 pooled samples  
(1 positive; 9 negatives)



Detected



Detected

ThermoFisher  
SCIENTIFIC



For more information :  
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210.826.0910

## Pooled COVID-19 Screen Testing from Clinical NP Swabs Collected in PrimeStore MTM<sup>®</sup>

Increase throughput • Reduce consumables  
Decrease costs • Save time • Multi-sample screening

PrimeStore MTM<sup>®</sup>: For safe and stable collection  
of clinical respiratory samples for sensitive qPCR  
and molecular testing.

# References

- [CDC Guidelines for Handling and Processing Specimens Associated with Coronavirus Disease 2019 \(COVID-19\)](#)
- [PrimeStore MTM is the only media on the FDA preferred list that inactivates SARS-CoV-2 during the collection and transit stage.](#)
- [Assessment of sample pooling for clinical SARS-CoV-2 testing](#)
- [PrimeStore® MTM is compatible with a wide range of spin column and bead based extraction systems providing high quality RNA, DNA, mRNA for molecular analysis.](#)
- [Assessment of sample pooling for clinical SARS-CoV-2 testing3v1](#)
- <https://www.cdc.gov/cpr/infographics/biosafety.htm>