



# FREQUENTLY ASKED QUESTIONS

## Q: What does PrimeStore MTM do?

A: PrimeStore MTM safely inactivates pathogenic samples whilst preserving DNA and RNA by denaturing nucleases and proteases. This allows sample processing to be performed outside of controlled containment and eliminates the risks associated with transporting live pathogenic samples.

## Q: What platforms have been validated for use with PrimeStore MTM?

A:

Manual spin column kits	Automated magnetic bead extraction kits
PrimeXtract™, Longhorn Vaccines and Diagnostics	EZ1®, Qiagen
RNAqueous®-Micro Kit, Thermo Fisher Scientific	QIASymphony® Virus/Bacteria Mini Kit, Qiagen
QIAamp® Viral RNA and DNA Mini Kits, Qiagen	NucliSENS® easyMAG®, BioMerieux
ChargeSwitch® Total RNA Cell Kit (Invitrogen), Thermo Fisher Scientific	MagNA Pure 96 System DNA and Viral NA Small Volume Kit, Roche
MagMAX™ Viral RNA Isolation kit (Ambion), Thermo Fisher Scientific	PrimeBeads™, Longhorn Vaccines and Diagnostics

Please note that the user is responsible for validating downstream extraction and purification methodologies.

PrimeStore MTM should not be used with any analysers that utilise a bleach decontamination step such as Hologic platforms.

Platforms that do not have a nucleic acid extraction step should not be used in the final assay as PrimeStore MTM will denature all enzymes used within the assay.

## Q: What Swabs can be used with PrimeStore MTM?

A: Flocked swabs of man-made materials (i.e. not cotton with a wooden shaft) can be used. At this time Longhorn does not have experience with 3D printed swabs in PrimeStore MTM.

## Q: What is the procedure for transferring specimens from MTM for RNA/DNA Extraction?

A: The procedure is specific to the extraction kit being used and not specific to PrimeStore MTM. Samples must be incubated in PrimeStore MTM for 60 minutes prior to DNA/RNA extraction.

## Q: How do I use PrimeStore MTM?

A: The sample should be collected and placed into the PrimeStore MTM solution, it should be noted that samples (including swabs) should be added at a maximum ratio of one part sample to three parts PrimeStore MTM.  
If using a sample swab, the swab should be snapped at the breakage point and then sealed into the PrimeStore MTM vial.  
The user should then shake the vial for 3-5 seconds and allow the sample to incubate in PrimeStore MTM for a minimum of 60 minutes prior to sample processing. Samples should be vortexed for 3-5 seconds prior to DNA and RNA extraction.

## Q: How do I dispose of samples in PrimeStore MTM?

A: Labs processing samples collected in PrimeStore MTM should handle all waste by following their own Waste Disposal Protocols for their routine nucleic acid extraction kits (after acid).

## Q: How long can I keep my sample in PrimeStore MTM?

A: Samples are Stable for 7 days at ambient temperature and stable for 28 days at 2-8°C. Samples can be bio-banked for long term storage. It should be noted that samples will not be affected by multiple freeze-thaw cycles. Studies have shown longer stability for RNA at both ambient and high temperatures from time of collection to time of nucleic acid extraction compared with other transport media.

## Q: Can I take an aliquot from the PrimeStore MTM solution and directly conduct a RT-PCR assay without initial nucleic acid extraction?

A: Due to certain components of the PrimeStore MTM solution, you must first undertake a nucleic acid extraction process before you conduct a RT-PCR assay. However you can place a sample from PrimeStore MTM into the Cepheid GeneXpert cartridge along with the Cepheid PBS solution without first performing an extraction step.