PrimeStore MTM® MOLECULAR TRANSPORT MEDIUM (MTM) FOR NUCLEIC ACID TESTING & MOLECULAR DIAGNOSTICS

COLLECT • INACTIVATE • STABILIZE • PRESERVE

Product Information

INTENDED USE: PrimeStore Molecular Transport Medium® (PS-MTM) is intended for stabilization, transportation, and inactivation of infectious unprocessed nasal washes, nasopharyngeal, oral/throat swabs suspected of containing influenza A virus RNA. PS-MTM is also intended for the stabilization, transportation and inactivation of infectious unprocessed sputum samples suspected of containing Mycobacterium tuberculosis (MTB) DNA from human samples.

BACKGROUND: PS-MTM consists of a sample collection tube containing a proprietary solution for inactivation of influenza A and MTB and the stabilization of influenza A RNA and MTB DNA. It is intended for storage and transport of influenza A RNA and MTB DNA in a closed tube. Performance characteristics for PS-MTM have only been established with influenza A RNA and MTB DNA. The user is responsible for establishing additional PS-MTM performance characteristics.

SUMMARY AND EXPLANATION: Specimen collection and transport is a key component in molecular detection of influenza A and MTB. PS-MTM is a self-contained, 'ready-to-use' system that allows for the stabilization and safe transport of clinical samples at ambient temperature from the collection site to the laboratory.

DEVICE DESCRIPTION: The PS-MTM device is a plastic, cryogenic tube containing the stabilization solution. These components inactivate influenza A and MTB, lyse cells, disrupt/lyse lipid membranes, denature proteins and enzymes, and preserve and stabilize influenza A RNA and MTB DNA.

REAGENTS: Guanidine thiocyanate, TCEP, sodium citrate, N-Lauroylsarcosine sodium (NLS), antifoam A, TRIS, EDTA, ethanol (molecular grade), HCI, nuclease-free water.

PRECAUTIONS:

- WARNING: Guanidine Thiocyanate forms very toxic gases on contact with acids! Keep away from acidic or alkaline products and oxidizing agents. 0
- Do NOT use bleach for cleaning or disinfection. Not to be used with lab automation systems that use bleach including the Hologic Panther and Fusion systems. 0
- Do NOT breathe vapors. 0
- 0 Avoid contact with eyes and skin.
- To be used by trained and qualified professionals.
- Read the information in this package insert and follow directions carefully.
- Do NOT insert swab into solution before collecting patient specimen.
- Do NOT drink, touch or remove PS-MTM from collection tube.
- Do NOT transfer PS-MTM into other tubes.
- Do NOT pool PS-MTM into larger volumes, or leave tubes uncapped for more than 10 minutes.
- For specimen in PS-MTM follow state, local and institution guidelines for the handling and disposal of biohazard waste.

STORAGE TEMPERATURE PRIOR TO USE: Optimal storage temperature is 36-77°F (2-25°C). Shelf life prior to use is 24 months.

SPECIMEN COLLECTION PROCEDURE:

- 1) Non-invasive collection of suitable clinical/biological samples including nasal washes and sputum samples.
- 2) Unscrew cap of the PS-MTM tube.
- 3) Collect clinical/biological specimens using standard clinical procedures. For MTB sputum collection, swirl a submerged flocked swab five times in clinical sputum sample and transfer swab to PS-MTM tube. The volume of sputum sample absorbed onto a flocked swab is typically 0.1 to 0.2 mL. Influenza specimens should be collected by standard methods using a throat swab, NP swab or nasal washing. Up to 0.5 mL of nasal wash can be added to each PS-MTM tube. A second sample should be collected if there is a requirement directed by protocol, state or federal law to submit samples to a government agency (e.g. United States Center for Disease Control (CDC)).
- 4) If collection is by NP or oral swab, insert flocked swab containing collected sample directly into PS-MTM collection tube and break off excess swab handle at the indicated breakpoint.
- Place cap on PS-MTM tube and close tightly. 5)
- Store at room temperature until ready to ship to diagnostic laboratory. MTB DNA from samples collected and stored in PS-MTM is stable for up to 30 days at ambient temperature 6) (50-78.8°F/10-26°C). Influenza A RNA from samples collected and stored in PS-MTM is stable for up to 7 days at ambient temperature (50-78.8°F/10-26°C) or can be refrigerated (36-46°F/2-8°C) for up to 28 days.
- 7) Proceed with RNA/DNA extraction after incubating specimen in PS-MTM for a minimum of 60 minutes. Vortex sample before use. Extract the RNA/DNA using extraction kit or an automated platform validated for use with PS-MTM.

QUALITY CONTROL: Each lot of PS-MTM is tested for pathogen inactivation to ensure reproducible performance.

RESULTS: Accuracy of molecular testing depends on correct specimen collection, integrity of nucleic acid, extraction and PCR amplification.

LIMITATIONS:

- Performance characteristics of PS-MTM have been demonstrated for influenza RNA from nasal washes and MTB DNA from sputum. The user is responsible for validating PS-MTM with all diagnostic tests.
- The user is responsible for establishing appropriate system performance characteristics for other specimen types and tissues. 0
- 0 The PS-MTM system is a collection, preservation, transport, and storage system for influenza RNA and MTB DNA. Extraction and purification of nucleic acids have been validated on several manual spin column kits (PrimeXtract™, RNAqueous Micro Kit, Viral RNA Mini Kit, QiaAMP DNA Mini Kit) and automated magnetic bead extraction kits (NucliSENS EasyMAG and MagNA Pure 96 System using the DNA Bacterial/Viral small volume kit). The user is responsible for validating additional extraction and purification kits and platforms.

PrimeStore® is registered under United States Patent Nos. 8,084,443; 8,293,467; 8,415,330; 8,060,645-IPC; 8,669,240; 8,080,645; 8,097,419; South Africa Patent Nos. 2010/02174. 2011/07624; Australia Patent No. 2008 343745; Europe Patent Nos. 2195466; 2421993; Israel Patent No. 204756; and New Zealand Patent No. 584308.

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