

## COLLECT • INACTIVATE • STABILIZE • PRESERVE

### Product Information

#### PRINCIPLE

PrimeStore MTM<sup>®</sup> was developed for research, epidemiological, and surveillance use in remote settings. PrimeStore<sup>®</sup> is a molecular transport medium designed to: 1) obtain high quality nucleic acids (DNA/RNA) from clinical or environmental samples, 2) inactivate potentially infectious biological pathogens for safe handling and transport, and 3) stabilize released 'naked' DNA/RNA for prolonged periods without oxidative/hydrolysis/nuclease degradation. Samples collected in PrimeStore<sup>®</sup> MTM must be extracted using a commercially available extraction method such as silica spin columns or bead-based extraction systems.

#### STORAGE

This product is ready to use and no further preparation is necessary. The product should be transported and stored in its original container at 2-25°C until used. PrimeStore MTM<sup>®</sup> has an 18 month expiration date, which is clearly printed on each transport vial label. Specimens collected/stored in PrimeStore MTM<sup>®</sup> are stable for up to 30 days at ambient temperature (2-30°C). For prolonged periods (>30 days), specimens collected in PrimeStore MTM<sup>®</sup> should be stored refrigerated or frozen (0 to -80°C).

#### SPECIMEN

Acceptable human specimens include nasal washes, sputum and nasal/throat/buccal swabs and other bodily fluids including blood. Environmental and cloacal specimens have also been utilized and evaluated. Nucleic acids from samples placed into PrimeStore MTM<sup>®</sup> are stabilized and preserved for up to 30 days at ambient temperature. PrimeStore MTM<sup>®</sup> is ideal for clinical, field and deployment use, or for high volume sample collection/extraction. Collected specimens in PrimeStore<sup>®</sup> are biologically inactivated and may be safely shipped without refrigeration or dry ice.

#### Directions for Specimen Collection:

1. Suitable clinical samples include sputum, nasal wash and throat or nasal swabs.
2. Collect clinical specimens using a flocked swab or other method.
3. After collection, insert flocked swab containing collected sample directly into PrimeStore MTM<sup>®</sup> collection tube. The volume of sample absorbed onto a flocked swab is typically 0.1 to 0.4 ml. Break-off excess swab handle at the scored mark. For TB sputum collection, swirl a submerged flocked swab 5 times in clinical sputum sample and transfer swab to PrimeStore MTM<sup>®</sup> tube.
4. Alternatively up to 0.5 ml of clinical material (nasal wash/sputum sample or other bodily fluids including blood) can be pipetted directly into a PrimeStore MTM<sup>®</sup> tube. A ratio of 3:1 PrimeStore MTM<sup>®</sup> to sample is recommended. Place cap back on PrimeStore MTM<sup>®</sup> tube and close tightly.
5. Store at room temperature until ready to ship. RNA and DNA from sample collected in PrimeStore MTM<sup>®</sup> is stable for up to 30 days at ambient temperatures.
6. Proceed with DNA/RNA extraction using a commercially available purification method.

#### **WARNINGS:**

**DO NOT insert swab into solution before collecting patient specimen.**

**Do NOT drink, touch or remove PrimeStore MTM<sup>®</sup> from collection tube.**

**Do NOT transfer PrimeStore MTM<sup>®</sup> into other tubes.**

**Do NOT pool PrimeStore<sup>®</sup> into larger volumes, or leave tubes uncapped for more than 10 minutes.**

#### PrimeStore<sup>®</sup> Reagent Safety and Health Precautions

PrimeStore<sup>®</sup> contains a proprietary blend of reagents that includes a reducing agent and chaotrophic compound (HMIS: Health Rating: 2, Physical Hazard: 0). These chemicals can be harmful if inhaled and/or ingested. PrimeStore<sup>®</sup> may cause irritation to skin, respiratory tract and eyes.

#### First Aid Measures

Skin Contacts	Get medical aid. Immediately flush skin with soap and water while removing contaminated clothing and shoes.
Eye Contact	Immediately flush eyes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Inhalation	Remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Ingestion	Do not induce vomiting. If victim is conscious and alert, give 2-3 cups of water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Caution: Do not ingest solution. Avoid contact with eyes.**

If contact occurs, wash with copious amounts of water and consult a physician.