Pro-Wipe Molecular Solution

REF TBD

PRODUCT INFORMATION SHEET

INTENDED USE
For use in laboratory and molecular biology environments for the removal and inactivation of:
- DNase contamination
- RNase contamination
- General nucleic acid carryover on surfaces

Suitable for wiping benches, equipment exteriors, and non-porous laboratory surfaces.

SUMMARY AND EXPLANATION
Pro-Wipe Molecular Solution is a surface decontamination reagent designed to rapidly inactivate DNase and RNase contamination on non-porous surfaces. It is intended for use in molecular biology and genomics workflows where prevention of nucleic acid contamination is critical.

MATERIALS PROVIDED
Each container of Pro Wipe Molecular Solution contains 125 mL of a pre-formulated aqueous decontamination reagent. All components are supplied as a single ready-to-use formulation.

STABILITY AND STORAGE
Store at room temperature (15–30 °C) in the original tightly closed container. Protect from direct sunlight and heat sources. Do not freeze.

WARNINGS AND PRECAUTIONS
- For laboratory and research use only. Not for diagnostic, therapeutic, or in vivo applications.
- Do not use the reagents after the expiration date shown on the product label.
- The procedures, storage conditions, precautions, and limitations specified in these directions must be followed to obtain valid test results.
- Do not use if any signs of contamination is observed.
- Contains an oxidizing agent and may cause irritation to skin, eyes, and mucous membranes.
- Avoid direct contact with skin and eyes. Wear appropriate personal protective equipment (gloves, lab coat, eye protection) during use.
- Do not ingest or inhale vapors. Use in a well-ventilated area.
- Do not mix with acids, ammonia, reducing agents, or other incompatible chemicals
- May cause bleaching, corrosion, or degradation of sensitive materials (e.g. certain metals, dyes, and polymers).
- Do not transfer to unlabeled containers.
- Keep container tightly closed when not in use.

TEST PROCEDURE
1. **Pre-cleaning**
   Ensure the surface is free of visible soil or debris. If necessary, clean the surface prior to application.
2. **Application**
   Apply a sufficient volume of Pro-Wipe Molecular solution to completely wet the target surface.
   As a guide, 100 µL per 5 cm × 5 cm area provides adequate coverage.
3. **Distribution**
   Spread the solution evenly using a clean wipe or allow the liquid to uniformly cover the surface.
4. **Contact Time**
   Allow the solution to remain on the surface for **a minimum of 1 minute**.
   For heavily contaminated surfaces, extend contact time to **up to 5 minutes**.

5. Rinsing and Drying
After the required contact time, rinse the surface with water and dry using a clean disposable towel.

QUALITY CONTROL

The routine quality control procedure for each Pro-Wipe Molecular Solution lot involves testing the active ingredients, pH specification, functional performance testing, appearance and packaging integrity. A batch is released only if all QC parameters meet established specifications for chemical identity, physical appearance, packaging integrity, and functional performance. Representative samples from each batch are retained for stability monitoring and reference throughout the product shelf life.

LIMITATIONS OF THE PROCEDURE

The performance of the Pro-Wipe Molecular Decontamination Solution depends on proper application conditions and may be affected by environmental and surface factors.

The following limitations apply:

- **Organic load:** High levels of biological material (e.g. proteins, cell debris, or serum residues) may reduce effective oxidative activity. Pre-cleaning of heavily soiled surfaces is recommended.
- **Contact time:** Insufficient contact time may result in reduced DNase/RNase inactivation efficiency. Recommended minimum contact times must be followed.
- **Surface compatibility:** Effectiveness may vary depending on surface type. Porous or highly absorbent materials may reduce surface availability of the active agent.
- **Application coverage:** Incomplete wetting of the surface may result in reduced performance in untreated areas.
- **Aging or improper storage:** Product efficacy may decrease if stored outside recommended conditions (e.g. excessive heat, light exposure, or container compromise).
- **Chemical incompatibility:** Residual presence of incompatible chemicals (e.g. reducing agents, strong acids, or ammonia-containing cleaners) may interfere with oxidizing activity.

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