

Vaporized Hydrogen Peroxide Permeation Study

 Confidential Client

PROJECT DESCRIPTION

This project utilized the Hyde Analytical Laboratory's MBRAUN MB-Purge Box Glovebox Isolator and a Drager X-am 5100 Gas Detector for the initial proof-of-concept study at the Louisville laboratory. Hyde then performed a cycle evaluation and an overnight hold on-site at the client's facility.

STUDY OVERVIEW

Study to characterize the permeation of vaporized hydrogen peroxide (VHP) across a Tyvek barrier on sterile nested vial tubs during decontamination.


This was a non-standard project that utilized Hyde Analytical Laboratory's adaptive problem solving to design a study to meet client needs. The study looked at decontamination testing, VHP decay curve testing, cycle evaluations, and an overnight hold.

SCOPE AND DELIVERABLES


- **Proof of Concept**
 - Development of testing strategy
 - Simulated decontamination and aeration cycles within laboratory isolator glovebox
- **On-site Testing**
 - Utilized client stations to test cycles of decontamination
 - Included an overnight hold

SOLUTIONS, RESULTS AND ACCOMPLISHMENTS

- ✓ Delivered results of amount of vaporized hydrogen peroxide that permeated Tyvek seals of vial tubs
- ✓ Showed decay curve of VHP

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